# International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

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Marriott M K 5 Martin Ia 1 ) Mauclare 9 Mayer 1 Mei n \ 11 ntzer 5 11 Mt hon F 40 Miles W I Moore I Morson A ( 41 Mouchet 5 NION I F ( Nichol on B I a No uchi H 3 No -Jo erand G 47 Oddy II M 58 Odelbe g 1 Okinczyc J Oban C II Own H R I ala zolı 38 Iápin I 4 Pasteau 30 1 aton J II I 3 Pavi J L 4 I entield W 0 I entield II o ler son M 17 Pfeiffer D B o Picot to Pie son 1 \ 3 Pillet 40 lo tmann G Potot.chm G 1 Potest fr 40
Pouzet fr 40
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Y dkin Y M 4

# EDITOR'S COMMENT

TO readers of the journal it is hardly neces sary to emphasize the importance of Fraser's study of malignant disease of the breast which appeare I in the September issue and which is briefly il structed on page 11. With the aid of whole actions through the breast and of paraffin sections of many different areas of the breast tissue I raser studied the virginal the senile and malignant breast with particular reference to the er thelium in different activity of the parts of the glandular system to the types of tumor growth i re ent and to the manner of dissemination of cancer ells. That different types of tum rmax le found in the time breast that hissemination f cancer cells by way of the lying hatres takes place primarily through a central gr up of lymphatics which mass vertically to the leep facta in I then exten l'centrifu illy and that the lact system i an important rute f dis emination for cancer cells are a few f the important facts stre sed in Iris railaber. To the surge n interested in the sul ject of manimary carcinoma this paper cannot hely but by ve stimulating in I valuable

Winslo in I Shit le a report of ten asis of pericar li t my for py pericar luim, and review f 118 ca es from the literature (p 13) emphasize the p sil thty of successful surgical treatment in i form of infection frequently considered as hoje less. The ea with which the pericardium may le exposed by the cara inher lines ion the toler ance of the heart for drainage tul is in the pericar hal sac and i r irrigate in of the sac and the importance of reconizing the pre ence of a pleuril citu ion in l f jr tecting the pleura durin of eatin are some of the important teints emphasized in this intere time paper

A number of papers relating to various phases of gastro intestinal sur ery ab tracted in this month's is ue of the AB TRACT are vorthy of pecial mention. Eli t s review of the causes and

treatment of intestinal fistulæ (p 18) and the discussion following his paper are helpful contributions on what is frequently a difficult surgical problem The reports of Mauclaire (p. 10) of Lapointe (p 19) of Vanlande Boppe and Okincyze (p 10) and of Picot (p 10) upon the u L of spinal anasthesia in intestinal obstruction help to answer the questions which have arisen in the minds of those who have read the somewhat conflicting reports of the results obtained from the use of spinal an esthesia in acute ileus. The authors mentioped stress the possibility of fatal toric absorption when a considerable quantity of retrined intestinal content is suddenly released by relaxation if the ol structed bowel the possi bility of the further reduction of the blood pre sure in cases in which it i already near the danger point and the false a curity engendered ly evacuation of intestinal contents in cases in which the cause of ol struction still remains The liscussion Ly Miles Gabriel Gordon Watson l owlands and other on colostomy (p 22) the experiments of Stone (p. 4) on the substitution f small bowel se ments for large and the resume

by I feiffer of the principles underlyin the sur gery of carcinoma of the rectum (p 6) are help ful contril uti as on the technique of the surgical treatment f mathological conditions involvin the large bowel

The experimental studie of No uchi on trach oma (p 3) of Hamrick on the emptyin of the gall bladder (p 26) and of hy on the external secretion of the pancreas (p 30) Pierson's clinical study of 50 case of pregnancy complicated by fibrems cma and Cotton's recommendations as to the treatment of fractures of the neck of the femur by artificial impaction (p. 50) are a few of many other important pipers abstracted in this month s issue of the fater ational Abstract of Scr GERY

# INTERNATIONAL ABSTRACT OF SURGERY

JANUAKY 1928

# ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Pechaume M and Condamin F Depressed Fractures of the Anterior Wall of the Frontal Sinus (1) nfinc m nts | lap anterior lumin fr ntal) Li chr 19 , 1 ()

Depressed frequence of the anterior will of the frontal sinus occur more frequently in miks than in females and are usually due to direct traumic caused by firearms spikes falls blows or kicks. There may be damage to the supriorbitation received under the orbit frontal or oculomotor nerves submavillars sinus ethnoi lal sinuses masil cayity or front masal duct.

Phe symptoms may be slight but the location of the lesion and the a scented deformity may suggest the diagnosi. A diagnostic sign of importance is prolonged unilateral epistaxis. There may be slight reclema of the cyclid periocular eachymois and erepitation. Subsutaneous emphysema is not very common but is a valuable sign. The escape of eerebrospinal fluid occurs only when there is injury to the dura. As a rule there is no loss of conscious ness at the time of the injury.

If treatment is not given a pneumatocele inusities osteomyelities or suppuration with nasal complications may occur. I istulic develop if the skin is broken. Other possible complications are pachymeningitis meningitis and cerebral abscess. The progno is is usually good but depends upon the time at which treatment is given. Lite complications may occur.

The treatment is simple. It should be given for all unjurie regardless of their surmised extent. In the authors cases an incision is made over the sinus and all bony spicules an I foreign bodies are remove! The whole sinus and the frontonasid duct are then explored. Closure is effected without drainage but in some cases a pack may be left in for forty, eight hours. I ew or no dressings are applied. I ressure on the wound must be avoided. If a depression persists after this treatment a graft of fat.

or an osteoperiosteal graft may be tried. Metal and rubber plates are to be condemned.

If complications (sinusitis fistula etc.) develop after the operation the wound should be re opened and a search made for the source of the trouble. If the frontonasal duct is closed an attempt should be made to open it. If this fails some operative measure such as the Ogston Luc or Guisez procedure may be tried or an attempt made to obtain fibrous obliteration of the eavity.

A number of cases are reviewed from the literature and three new cases are reported

MICHALL I MASON M.D.

Portmann G and Despons J Surgical Intertenton in Infections of the Lateral Sinus and Internal Jugular Vein (1 after ention charurgicale in le infection busine la ral et le la veine jugulaire (tern) Per de el 97 kiv 244

The history of surgical operation in phlebitis of the lateral sinus and internal jugular vein is re viewed since Zaufal first practiced ligation lavage and drainage of the internal jugular in 1880. In the authors operation the first stage is a mastoidectomy and the second stage is incision and curettage of the lateral sinus. An incision is made along the ante rior border of the sternoeleidomastoid beginning at the hood bone and ending a finger's breadth above the clavicle and a double ligature is applied to the internal jugular below the area of phlebitis and below the thyrolinguofacial trunk if it is thrombosed. The lacerated foramen is then trephined through the mistoid incision the bulb of the jugular being ex posed. The mastord and errotid incisions are then united the whole trunk of the jugular to the bulb being exposed and the vein is sectioned between the to o lightures. The resected fragment is from 7 to 8 cm long

On the completion of the resection the bulb is tamponed with iodoform gauze and a drain is in troduced and brought out at the lowest point of the wound After the operation the wound is irri ated with physiological salt solut on and d essed every second day. If there is too much suppured on Dakin irriga

tion is done every three hours

The results of the operat on are 1001 A case is reported in letail Re cti n of a pirt of the jugular does not seen to have any m simple ligation. The nuther section of the ctinal beautiful that of the part aliaces or but it did not cau e any symptom. There wis httle throphy of the mu cl. El ctrial eximination slowed that nothity with a time the customation of the ctild that nothity will be the complete that obtained that the control good earlight on the work of the control good earlight on the case of the

The ir it in ent of thromb philabitis of the man and jugular vein i e tirely urgical and op ration tends to become nore and in rea h 1 I flee object i not simply to fruit the few function but remove it to the few function but the few function but the few functions with the f

Sci affer A J and Jacob en A W M kul z s Synd ome A Report of 10 Cases 1, J D

The auth rs report to ca hators no up plement them by shotograph of se eral of the

coined the t m febris use par tidea ubchr n ca

obtained in only 3 of the ca e

an I recovered complet ly The 4 other patients must be class d a suffering from Mikulic li case proper as 10 1 i nite eti log ical agent could be d cov ed 1 r of them of the po sible causat ve factors ere let tely exclude 1 The 3 others a lmitted syphil tie if fee had car f the p mar infiction ni 1 positive Wa se mann rea tion of the bl od e um at the time f examination. Sychilis as present al o in the other a fults the patient ath hympho sarcoma having a p tive Wa serm nn reacti n and the a lult th leukamia going a definite history of the inf cti n II ever in the pee t state of our kn ledge t seem 1 to a sume that syphils was the cau e of the y frome Of these a patients I has ent rely ecovered and I die l of pneumo ia sho the afte lmi on to the hos pital With regard to the 2 oth r no informat on is obtainable Material f path I gical stu ly was

In the cases in which is the logical factor in be bound with any degree figure assurance—those of so called Mikulicz dease—the pitholo ical picture is of a tyre. The may be either an incircle in the lympho delements in the gland—diffuse in small aggregations or both—or a hyperplasta of the connective its use elements with uffunde diffuse.

scarring The latter is considered by many to be the end stage of the former

The authors discuss Howard's and von Bruan's classif critions but suggest dividing the conditions into 2 large groups a symptomatic and an idiopithic as follows

I Mikulicz disea e (1) familial (b) Mikulicz disease proper

Mikulicz syndrome (1) leukæmia (b) tuber ulo 1 (c) yphih (?) (d) lympho arcoma (e) tor c (lea 1 od les etc) (f) gout (?) and (g) febn uveo parot lea sub hronica

e mant C and Durelssac M Metall cloops
Through the Bone to Hold the Ascending
R not place in Fractures of the Lor rjaw
Their use Case of Bilat r I Retrode in
Facture (L p db lace to the control of the control
t t s d l s f c t et d l b b chem
t place l s d l s f c d d l b c c t as
t s d l s f c t d vill
t pl d n n s d f c t e d when rive
d t d l mach f r e B H st mtm
be t d d d o r l 5 3

The method described visused in a case of blat or lifacture if the lower ja back of the teethin and shower is back of the teethin and shower in the continuous states of the lower jame out ing the only 6 mains teeth had fallen for and that the diection of the teeth visus could be could be could be continuous the control of the teeth visus could be controlled to the country and the main of the results of the main on the left side at the mental from

S on afte the ac id t a metallic ligature was pple I to by the ant nor fragment to the middle right upp 1 is t 1 week late under general mæ th the ski a inci ed lon the posterior bord f the ja a h le vas bo ed at the angle ner h ide 3 mm fr m tlee ig and a copper vie of the leuully emplyels surgery as passed through the lol and that I to form a loop. The 2 1 p refed togethe 1th a pece of stro cloth By ty ng the cloth t htly over tampons on the n se of the neck v rv t ong anteropo terior trac tin as p lu ed o the ascending rami Still tr ng traction s prol c lon succeeding days by it ing the fatient op his south as wide as ble st o er me the a tion of the legators

Meer the tuth dy no int buccal app I tus was neces my and n the thi teth diy the loops error d nd the patient discha ged ith almost complete c nsolid ton ludge. C Mid GAN M D

Spr 1 son E Fu tl rIn estig tion of tl e Pathol ogy of D nug ous Cysts itl a Ne T at ment B d Ti ereon P Ry So Md L d 9 7 8

Sprat on contend that the sequela of cartes in decidious teefl are 1 no a v diere t f om those occu g i permanent teeth but a less ofte seen because of the much shorter time the de cidious teeth em n n the jai. The oully his lological difference between the granulomata on

decideous and permanent teeth is that in the for mer there are much grosser masses of epithehum probably because of the greater visculants of that part during the active tooth forming and tooth absorbing period and the greater youth and activity

of the epithelial cells involved

The new features of the operation described are the preservation of the tooth involved in the cyst and the retention of a considerable portion of the cyst hning. The operation is simplified into opening of the cyst cavity freely enough to merge it into the buccal cavity Drainage then becomes almost automatic and lavage is facilitated. The cast iming is not removed because it is epithebal and therefore protective If it were removed there would be considerable risk of damage to the involved permanent tooth which it is desirable to conserve there would be also a very much larger raw surface open to in fection and the absorption of toxins after the operation and there would be more hamorrhage and pain There does not seem to be much object in removing one epithelial lining when the desirable ultimate result is that another epithelial covering shall grow in from the edges of the wound and replace it. The new operation is much simpler and shorter than the old procedure and does not require packing of the wound to arrest homorrhage Sprawson is aware that similar retention of the cost lining is occasionally practised in the treatment of dental cysts. This treatment conserves the perma nent tooth

The author reports 4 cases in which the new operation was performed. The patients were 9 9 6 and 8 years of age. In every case the perma

nent tooth was saved
In conclusion the author claims to have demon

strated the following facts

r Granulomata occur on deciduous teeth

2 Dental cysts occur on deciduous teeth

3 When dental cysts occur on deciduous teeth they may envelop adjacent unerupted permanent teeth

- 4 Cysts on deciduous teeth may obstruct de lay or misdirect the cruption of adjacent permanent teeth
- 5 On the removal of the obstruction eruption of the underlying tooth may be resumed
- 6 When in the process of growth a dental cyst envelops an uncrupted tooth a dentagerous cyst is produced

Sprawson has attempted to prove only that dentigerous cysts frequently and indeed usually arise from septic deciduous teeth—not that they always do so

The article continus several rountgenograms illustrations of serial model and photomicrographs

of sections

The dental cyst dentigerous cyst cyst of eruption over a decidious tooth or a permanent tooth which has no predecessor and the cyst of cruption over a permanent tooth which had a decidious predecessor are discussed briefly CARL R STEINEN UD

Finnoff W C Dr. Sterilization of Instruments
t: J Ophth 19 7 3 8 x 598

In the dry sternization of instruments recommended by the author the instruments are placed in suitable containers which are wrapped with 2 layers of hervy wrapping paper and labeled. They are then placed for half an hour in an electric sternizer automatically controlled by a thermostat which keeps the temperature at 160 degrees C (320 degrees F). On their removal they are kept in the paper until they are used.

It has been found that a temperature of 121 degrees C (250 degrees I) for 40 minutes will de

stroy practically all bacteria and spores

The advantages of the method are that it pre serves the instruments from rusting the instruments ire subjected to less handling and accordingly there is less chance that sharp points and edges will be dulled and less chance of infection more through sterilization is obtained and the possibility of car bolic burns of the eye are avoided

Finnoff has used the method for years. He recommends it not only for ocular instruments but also for spinal puncture needles syringes and in struments for emergency use in the office or else.

where

The only objections to the procedure are that several sets of instruments are necessary and they must be prepared a day or so before they are to be used

Thomas D ALEM M D

#### EYE

Key B W 1 rotein Therapy in Practice 1m J Ophin 1927 3 s x 600

Key emphasizes the beneficial results to be obtained from the use of foreign protein especially antidiphthentic serum in hypopyon keratitis in fection following penetrating wounds of the cornea and intix. In 3 cases of irrits remarkable clearing was noted following such treatment. Key uses protein therapy always in addition to the usual local measures.

Thomas D ALLIN MD

Noguchi II Experimental Studies of Trachoma 1rch Oplith 19 7 lvi 4 3

Material removed from the conjunctive of known cases of trachoma was injected subconjunctivally into monkeys without producing any reaction. When the same material was cultured on ordinary media a growth of staphy lococcus bacillus xerosis (a sarcina hke orgamsm) and a small motile gram negative bacillus was obtained None of these produced trachoma like lesions in monleys. The active or gamsm was found to be a small pleomorphic bacilliform organism which wa motile only under certain conditions and grew on a semisolid medium containing fresh animal serum and hamoglobin Of r monkeys inoculated with this organism a trachoma like inflammation resulted in all but r In a nimal scar formation began 7 months later Three recovered after having conjunctivitis for about 3 months. In some the d case was tranmitted spont neously to the uninoculated eye. It as not tible to transmit the disase allo to other

monkey by moculati n Latholog cally the 1

c closely to embles the hum n et e p ciall i si c es of monkers hich hav i o subconjunct al tissue Th lol licle are the acteriatic dark steming lymphocytes in a limit at lit right with lighter ce ter of mon nu la escular e lls often capsulate l So call d Villa l phago t nd mite sar ommon

the talara Il i the firting ceoft a ch mat u infecti n a im l jr fucel hr cth f om ult es \ D

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completely destroyed but there yere no evidences of inflammatio The tension as increased to as mm He The vi ual field as dim nished e pec ally on the na al s le ant the central v on as reducel to 0 40

The art cle s concluded by a short renew of the e planations of the conditi n given by other oph thalmologists T INS D ATTEN MID

k bs D B The C It ation of Lens Epit! I um m lito 1 1 Oplil o 1 45

The slit la np lins demonst ated oraque areas in lens function g n) mally shove g that clear c rtex ca le formel our 1 h a spot The le s utr ti n as inv f gate l in an attempt to stuly the gro th of c rtical cell outside the boly Diche as nabl to grow lens to me Aline eries f exa ment d m astrated that living lens cell f m la hel mb vos an be grovn on special m ! ut il the body and that the lens can then be li e te l free fr m all ext aneou cell Len ep th hum also s ntar el tthin a capsul and under prope o fiti has will be and multiply out I the ! ! n ! can b ! ro n in subc lt es

SILL I DLR MID

JL nd Du ld rp M Cata et E tract n t J Opiil 9 3

Ih a tho te briquef to act e traction if I s fr m the u ual meth 1 in the follow g partic ular

1 The formation of a conjunctival bridge which utured afte the t ct n

M mal lilatation fith pupil th hom tro

peanle e befr the p tion and the install t of e e in imme liately afte the opera t n 3 The niects n of milk imme l tely alter the

operation 1 g no the thi 1 nitfth day The mp rtance of thorough and the ia i

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The meth I le cribe! ha been u ed in I o gl f of itreou p stoper case 1tho t f cto I very stanc t a l'llo ed by rap d and 1 e ntl l healin

TIN DAL MD

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The ptent ho case 1 rep ted v sacol t l girl 14 year of e With correct on fo a slight hope ome astigmation he ison a li alfelds e om | The entral rt rv di ided nto t o b h on the lil From the l r ne sprang a I rall of p t ling into the treou or 3 lopter. Ih e t lipp pullitel v chronously th the I lifte I the cur at lach as lghtly darker tl the ret all art es No rem nants of the heal all arterial stem ere een t th the sl t lamp

A review of the literature on similar conditions is given. The author agrees with Leber and von Hippel that the abnormality is not due to inflam mation and is not a relie of the hyaloid aftery

SAMULL I DURK M D

Wagener II P and Gipner J T Arterial Spasm and Occlusion of Branches of the Central Artery of the Retina Am J Opith 127 3 s x 650

The authors review the hi tory and findings in 2 cases of sparm in a branch of the central retural artery and compare them with the history and findings in 3 cases of arterial thrombosis. The first condition that contend inverteads to permanent blindness its characteristic picture is complete invisibility of the artery distal to the spasm during the spism and re toration to normal subsequent to the spar m. Turk D. Vals. W.D.

#### EAR

Marriott Mck. Pediatric Aspects of Otolary ngology inn Otol Rlinol & lary gl 9 7 xx 1

Marriott states that when an infant ha been taking a suitable food in adequate amounts and fails to gain the food is not at fault and an infection must be sought. The infection most frequently responsible for nutritional disturbance is other media. The findings in this condition particularly in the cases of extremely maliourished or attreptic in fants are slight changes in the drums (sagging of the tympanic membrane) which often can be seen only with the electric ofscope. Usually immediate an trotomy under local anesthesia brings about amelioration of the symptoms (diarther) comiting and a slight increase in the temperature and leuco evite count) followed by recovery.

In children beyond the age of infancy sinus in fections are frequent and give rise to a wide variety of symptoms. Tuberculosis is often simulated, but treatment of the sinuses rapidly clears up the picture Chronic bronchitis with bronchiectasis may be produced or there may be repeated attacks of abdominal pain. In some children with sinus disease. the symptoms of asthma are noted sensitization predisposes to sinus infection on ac count of the hypertrophic condition of the mem branes Rheumatic endocarditis chorea and articu lar rheumatism are frequently accompanied by sinus disease and clearing of the sinus infections is the best means of preventing their recurrence phritis is one of the most important and distinct manifestations of nose and throat infection and is practically always to be found in nephrosis In glo merular nephritis there is usually a streptococcic infection

The general diagnosis of sinu-disease may be made by the pediatrist but to determine the particular sinus involved examination by an otolaryngologist is necessity. Mintorn R Wiltz M D Barlow R \ Does a Vitamin Deficient Diet Cause Deafness? Results of Animal Experimentation L Vigos of 19.7 VVII 040

The uthor carried out a series of experiments on rits extending over a period of two years to de termine the relationship between rickets and deaf ness. The results indicate that even in evere cases of rickets the calcium content of the bons capsule is not appreciably altered. In rats on a diet deficient in Vitamin D there was no demonstrable to so calcium in the bons labrinith although the long banes showed a definite to s in calcium and an in crease in cambration. The comparative study of rountgenograms of normal and pachitic rats howed no loss of calcium in the latter.

I rom these findings it appears that rickets is not an etiological factor in leafness, and that there is no reason to believe that a child who has had rickets is likely to become deaf. Jun (IRWW IL WI)

Shambaugh G l Explanation for the Symptom of Paracusis Willism V Demonstration i h Ot l Vik l g Vi S

In the cases of persons with normal hearing the icuity of hearing a deer ased by extraneous sounds. This decrea is apparent throughout the tone range but is greatest for the lower tone. A defect in hearing due to stapes heating is increased rather than decreased by extraneous sounds.

In noisy surrounlings, the per on with normal hearing (ends to raich is voice to overcome the hundrap but the person who i deal because of stapes fixation doc not experience the hundren because the dealnes for low tones effectively shuts out most of the extraneous sound a Coordingly the handreap experienced from obstructive dealness may be less than that experienced by the normal person as the result of extraneous sounds. This explains why while inding on a trun for example a deal person often hearts the voice better than a per on with normal hearing. Just 5 (Briswitt M.D.)

Lierle D N Otltis Media in Infints | In i Otol Rhin I C Lary igol | 19 7 x xxx 6 4

A syndrome of intestinal disturbances produced by otitis media in infants has been de cribed frequently during the past—years and the author here reviews a group of noe cases. The infant with this condition becomes critically and suddenly ill with marked dehydration loss of weight high fever durrhor and penods of syncope. I vamination of the car shows drumhead changes or bulging of the posterior superior walls. In 92 of the cases reviewed these findings were biliteral and there was associated Tarnasal sinus disease.

The promosis is dependent upon the duration of the infection the presence of other systemic complications and the virulence of the organism

Repeated myringotomies may be necessary for drainage but when these are unsuccessful and there is bulging of the posterior superior will a mastoidec

tomy is indicated. This should be done under chloro form ony gen anosthesia vith a maximum time himt of 5 minutes.

G. DEGE R. M. VLL FF. M.D.

De n L W A ute Otit s in Infants Its Influence on Cert in Systemic Conditions and the Influence of Tiese Condition on the Method of Teating the Cole in galactic Otits 4 1 Of 1 yell a 7

In Dean's opinion the symptoms which lead to the discours of of the in infants and the conditions which determine the choice of treatment are more often pediatric than otologic. Refusal of find dehydration darrhear an loss of yet ht may be fa tors determining whether mying tomy or mas toudectomy should be pref fine!

In the treatment the otol 1 t and pediatr can must work in the closest co operation 1 I must have complete confidence 1 each other. The p data ican should not confine hi work to the general t eatment of the cl ld but should enter actively into the d cu ston of the need for maringotomy or mast id

ectomy

As paranasal sin a disease is often associated with acute of this treatment fo both conditions is usually advisable. It is often difficult to leade which of the two is most influential in causing the systemic disease.

J & C B & Li VID

Chapman S J Ti he ul softle Niddle Fr with E pe 1 Refe no to lich offe aps 4 Ot l kl l l v g l o 7 63

It he an trium practice the author sees from a to 6 cross of tuberculous out a media per or patients and content are to the usual felings the condition is discovere las a rule in adult. In most cases it begins inside uty with an all issomf it tate there is as expurulent dischinger. Inflammation of the trun is ordin il of all gale all in adult mastori ten ferness is uncomon utes mixed infection is press to Pracal profission in all manufactures are the frequent.

The diagns is mide fro the charact nite on et the nille er finding the christ it the presence of an adjacent or emot tubercul u focus the discovery of tuber I broilli it his his charge on extimation of smear or gut eap p, inoculation and the finding of p thologoal yam atton of

exci ed ti sue

Bone and ingato is employed hen the dicharge; p ofuse but later's mple wining out of the curil ill suffice. Hel otherapy is of d'intervalue and orthy of tri lin chronic cases. The unlighted is reflected by means if a modified solve larvingo scope. The p tient treats himself beg. ing. that half imitute exposure once o twice tiul and in creasing it half a mi ute a dw. up to 5 or minutes. I the author's opin on his e ultish v been sufficiently enco aging to var at the ca tinued u e of hel othe apy.

ER MCLLIF MD

Sidbu 3 J B Mastold tis in Infants A Report of 40 Operated Cases S il 31 J 927 v 7 3

Forty surgically treated cases of masto dus in infinits are recieved. Twenty of these cases presented the picture of an acute gastro intestinal intorusation. The primary extiniation of the circ was frequently negative. Repeated examinations demonstrated a gradual loss of normal luster of the drum with marginal injection. Invaribly there was some sag ing of the posterior superior canal wall.

The author concludes that altrepsia and only drema in infants are often the result of a fection of the mastoid antrum. Whenever any sign of infection i note! rep ated otolog cal extimations should be made and free drainage estably hed. Close to operat on between the pediatrician and otologist is essential.

#### NOSE AND SINUSES

Layt n T B Tle Relat n of Nasal P lypit Inflammat n of the Acc sory Sin es of the Nose P c h > c M d Lo d 1927 v 74

In List on sopinion polyp and cate a specility of inflammation of the nucous membrane. They are usually associated with caturifial is flammation. To cure this condition all of the 1 ease larea must be removed to resolution of the inflamed nucous membrane must be secured. In the maillars anual plannage and la age may be sufficient but in ethinoid to of the type under dicuss on the removal of the ent edisease laters in necessity.

I woon accepts liagels a classification of smust is the belie of that the two chronic type are distinct. They are a different was un separate coases a do not change not each other. When an anitum full of pussope ed the mucous membrane is rarely polyp id. While a suppurative is unit may be uperimpe of on a catarth inflammation this is not the me as the chinging of one proces to be ofter. The cau are difference to the result of the coase of the

The author has operated up as three cases by an usual external technique. The nasal process of the uperior mailla was removed to other with the left control of the three and the osplanum of the ethmod with all of the ethmod; I cells back to the bods of the st henoid.

W. M. Parov. M.D.

N ison R F Men ng t of Nas 10 igin A Study in Su g e 1 Anatomy t Ot | Ri | L Id | c | 0.7

Menungit of nasil or g n is a rare d sense before high p ret cally all sur consistand hopel six nd in acti e But as a sufficient number or cases has no been rep rited there seems promie of a virtumethod of six g al attick. Ye Il has discibed operation by which e ploration of the fir naterhimoid a d sphenoid can be done simultaneously under local anysthesia in a practically bootle still del and complete safe and sure remo all of their

nasal walls accomplished under direct inspection and

from the closest possible range

This external fronto ethmosphenoidectomy shows that the subarachnoid spaces of the eramal fossa are clearly and safely accessible through the roofs of the ethmoid and sphenoid sinuses in front of the ontic chiasm and that extension to this remon of the accepted principles of surgery for meningitis of extrameningeal origin is feasible

George R McAuliff M D

I upton I M Frontal Sinus Empyema In Young Children with Several Case Reports t i Otol Rhinol & Lary 1gol 1927 vvvv 695

The author reports three ca es of acute frontal sinus empyema in children about 11 years of age which was characterized by the rapid development of sinus pain and cedema over the sinus necessitating a radical external operation. A routine study of roentgenograms shows that the frontal sinuses are more often of surgical importance in children than is generally believed and that in many cases of meningitis in children the condition is probably the result of unrecognized sinus infections

Prevention is to be attempted by keeping the nose free from secretions and keeping it open by such measures as suction the use of ephedrin and re moval of the anterior tip of the middle turbinate Intranasal operations help but little a thorough ethmoid exenteration permits approach to the floor of the frontal sinus MANFORD P WALTZ M D

Thompson G II Malignant Neoplasms of the in a Otol Phi sol & Larrngol 19 7 Antrum XXXVI 715

It is a common belief that malignant neoplasms of the antrum are rare but a recent review of the literature precludes this assumption growths in the antrum are believed by many to have their origin in previous abnormal conditions such as disease in a tooth socket the degeneration of a fibrous polyp or papilloma or injury by trauma One observer however fuled to find anything approaching a precancerous condition or any previous nasal condition in 39 cases

The rapidly growing tumor fills the antral cavity and breaks through the wall of the nose or phary nx causing pain bleeding and glandular involvement

ray examination and transillumination are valuable aids in the diagnosis but should not take precedence over clinical evidence

The prognosis is usually very unfavorable. In the cases of children it is less unfavorable if the tumor

can be thoroughly removed

Formerly the treatment consisted mainly in resection of the maxilly but the end results of this procedure were so extremely disappointing that it bas now been practically abandoned. Of the great variety of surgical measures advocated today all are practically modifications of the Caldwell Luc or Moure technique Additional treatment is given with the \ rays diathermy and radium

In conclusion the author emphasizes that the rhinologist the dentist and other practitioners treating the nose and mouth must bear the possibil ity of malignancy in mind and endeavor to recog nize such degeneration before it has advanced to a hopeless stage ( FORCE P MC AULITE M D

#### NECK

Lessel L and Hyman II T Exophthalmic Golter and the Involuntary Nervous System XIII The Course of the Subjective and Ob jective Manifestations of Exoplithalmic Goiter in Fifty Unselected Latients Ir h I t Met 1027 Yl 314

The authors discuss the course of the subjective and objective manifestations of exophthalmic goiter in fifty unselected patients observed for five years without the institution of specific therapeutic measures The treatment consisted in a dict of a oco calones the duly application of wet packs at a temperature of 75 degrees the administration of gr of phenobarbitol as a hypnotic and the ad ministration of from 5 to 30 minims of syrup of

ferrous rodide three times a day to hasten involution of the thyroid gland

Only thirty one of the patients were followed closely the others were lost sight of for various reasons In none of those successfully followed did the subjective symptoms entirely disappear. These symptoms did not bear a constant relationship to the intensity of the disease the basal metabolic rate or the economic restitution. The symptomatic and laboratory findings are tabulated. In no case did the goiter entirely disappear

The basal metabolic rates of ambulators patients

are given in tables

From the patient's standpoint social and economic restitution is most important Economic restitution occurred for an average of fifty two months in the fifty seven month period of observation

I he purpose of this report is to establish a normal or control upon which future reports regarding various types of specific therapy may be based

C O HEIMDAL M D

Froisler J The Basedow Syndrome 6 Months After Treatment with Iodine the Role of HereJity (Syndrome de Basedow six moi apres une cure iodee role de I her dit ) I ill et ém Soc med de hop de Par 9 7 hn 616

A 25 year old man with subscute rheumstism of the dorsal spine received during the month of March 19 6 both sodine and salicylate therapy (8 perispinal or epidural injections of 2 c em of lipiodol and 12 injections of 1 mgm of salicylic acid) After

months iodine was given by mouth together with colloidal sulphur until September when the rheumatism was much better and the administra tion of iodine was discontinued. In November the patient began to lose weight and after January 1 19 7 developed the symptoms of evophthalmic

gotter—regular elastic of five c thiroid Indigential pulsateral symmetrical evophthalmo tachivardia tremor profuse si eats bit flushes frequent dur thou and markel emoit ton. Examination of the spine ith the roentgen or re-ealed aodized of still present. The prit ent. as temporarily benefited by injections of the antithroid serium of Courud Although the incidence of Buz elo syn lrome in

still present. The pit ent as temporarily benefited by inject in so five antithyroid serium of Coultud Although the incl len e of Ba e to s syn lrome in patients tretted with to line 1 low. Trouser behaves that there is a possible relation between the lodotherapy d the thirs to cost of the other hand the iodine may have pled in role econ lant to he relative ten lenet to g item the patients mother all of de cloped world hadmer g item es suide. In which is the limited to the limited and the lodotherapy with the limited that is the limited to the limited that the limited is the limited that the limited that is the limited that the

II t V K Streptococ lc L ryi gitis Report of a

Gase ti Very R e C mplicati n !

Or l Kl | L | V g | 0 78

Streptococcic laryngiti causing definite dispora and stridor occur rather infrequently but must be borne 1 mind when a laryngeal infection 1 not definitely diphther tie. In the authors case the dispora becume so marked that intubation was die. 'S this resulted in no benefit a tracheotom

displaces to the form of the f

# SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS CRANIAL NERVES

VI sto VI Meningitis of Sphenoidal Slnus Origin P c los So Wd I nd to YY 1763

Unsto states that as sphenoidal sinus infection is a rather frequent cause of purulent meningitis of the non epidemic type and is often associated with otitis media the sphenoidal sinus should always be examined at autopy in a case of death from non enidemic meningitis and in the examination of the patient with otitis media IRIC OLDBIRG M D

#### SPINAL CORD AND ITS COVERINGS

Delageniere 1 Tumors of the Spinal Cord (I tum urs de la mo lle) J d I r 10 7 xxxx 510

Delageniere reviews 34 cases of tumor of the spinal cord in which operation was performed. In the case of a patient with signs of compression of the spinal roots or pain without definite cause lumb ir punc ture is indispensable as it will prove the presence or absence of compre sion. The immediate injection of lipiodol will reveal the level of any condition causing compression and sometimes even its nature

If the compression of the spinal cord is not due to I ott s disease operation should be performed without hesitation. In cases of tumor, the operative mortality is barely o per cent. In cases of peri medullary tumors it is only 4 per cent whatever

the site of the neoplasm

The late prognosis of intramedullary tumors (ma lignant gliomata) remains very poor. It is generally impossible to extirpate such growths but decom pres ion and evacuation of the cysts sometimes brings about considerable temporary improvement

beventy four per cent of spinal tumors are cir cumscribed perimedullary growths. In 76 per cent of the cases removal of the tumor enables the patient to resume his normal life and in 63 per cent

it results in a complete cure

Early operation gives incomparably better results than operation performed after the tumor has be come evident clinically If operation is not per formed the condition will be fatal

AUDREL G MORGAN M D

Robineau The Role of Lipiodol in the Surgery of Medullary Tumors (Le r le du hp od l dans la hruge l tumcurs médull tre ) Bull t m Sociit d / 927 lui 668

Of 24 cases of perimedullary tumors (intradural in connection with the spinal roots or the surface of the cor i) and cases of intramedullary enucleable tumors only the first 4 were operated upon without a previous injection of lipiodol. In the others the lipiodol indicated the upper and lower limits of the neoplasm. In ca es in which the ascending and de scending lipiodol were combined the \ ray showed There were no fulures the tumor poles exactly In cases of diffuse tumors of the cord areas of

arachnoiditis and tumors of the dura mater errors resulted from faulty technique or incorrect inter pretation of the X ray picture. Signed reports false irrests of the lipiodol in subtrachnoid migration 1 total or partial arrest of lipiodol is significant only when it is constant on successive examinations I rom this standpoint radioscopy previous to roentgenography is of value. A satisfactory negative finding after lumbar injection followed by the inclined posture does not prove that injection hy

the atlo occipital route will be negative Robineru disagrees with Desgouttes as to the sterilizing action of lipiodol since he has found that wounds do not heal more asentically when it is used Also unlike Descouttes he found no hyperemic action of lipiodol even when the injection was made days before the operation. The vascular dilatation was due to the tumor Moreover after the patient has been put down from the inclined position the impodol fell into the cul de sac and was not in contact with the tumor at operation

Lipiodol remains in the spinal canal many months before it becomes encysted in the sacral cul de sac In about 100 observations the lipiodol that was imprisoned in the lumbosacral region was found to be perfectly tolerated whether operation had been done or not

In a case of spinal lesion in which clinical exam ination indicated a low dorsal localization but lipiodol was arrested much higher up and at opera tion no lesion was revealed at the low dorsal site but a pachymeningitis was found higher up it was evident that the lipiodol was arrested by the arach not little but was not the cause of the condition

Robine in has followed the evolution of subarach noid injections of lipiodol by Sicard from the very beginning and believes that the method is harmless The lipiodol test is subordinate to clinical examina tion but has helped to clear up many doubtful tumor cases that had been treated erroneously as Pott s disease cardio vortic syphilis rebellions sciatica etc. It has revealed the location of tumors more accurately and facilitated the early diagnosis of medullary tumors. When the diagnosis is made carly operation may be performed before the period of scars and urinary infection

Since the discovery of exploration with lipiodol perimedullary tumors are operated upon 10 times more frequently than before and the operative mortality has been considerably decreased

WALTER C BURKET M D

#### PERIPHERAL NERVES

Basset A Inju y of the T o Upper Roots of the Brainal Plexus Dung Lapa otomy with the Fatlent in the T endelenburg Position (Lé on de d sup dupl u bach la

A tall thin woman with a lon neck and dooping houlders was operated upon in Tree del hourgs position for a large infe ted harmatosalping on the left side. When she was seen a month after the ope atton she pre entel pare is and part I at oppy of the sub-capular and supraspinatur and ser aturnagnus mu cles on the right side. She still had some pain but it as n t seere. There as n I sturbance of kin sen at in.

The diribution of the lins in leated thit hit to rot soft the brackil plecular eadectel. The earet he mit obligious and the mit superficial. The less in waprol bloaned by a huller retion the operating the Bec use of the patint habitus the brachial plecular in me obligious me upe ficial and less vellet ted than und the lifticulties whether tile with causalities of the mit of the mit

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I the line the prot Minne titel
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of the Irihal plau Inthom fellifoc d
abduction the paint as I feel I me the rible
I lea a upolithat uclinie name

frequent as the arm ft n f ll in the sa

This and that hidd a number of uhe cases Inn it them the little lived rolling to day but in it them the little lived rolling to day but in it the them the little little rolling the little little rolling to the about in lip little potents arm in the ten jit kepl hand from the feld of penting the little little

BALMCAPTNER r 10 t 1 that 1 once s paraly so of the t u k of the ulnar er e due t pres ure

from a screv on the ope ting table

Oubredant state that he had een a case of

paraly s of the brich at ple u from operative to vering of a conge tally high scapula

In conclusion By ser said that he had seen his attent aga a to emonths after his eport was witten and the e pected improvement in the paralysis had not taken place. You by G. M. R. N. M.D.

#### MISCELLANEOUS

Jenfild W. The Fn. pultted Tumos of the Ner ou System M ning at F1 oblastomat Perlneu 1 Fb oblatom r and Neu off b m t of von Recklinglusen S g G c 0bt 9 7 1 8

The beni n tumors of the nervous system are grouped histolo ically as (1) men ngeal fibroblas tomat (2) perineurial fibroblastomata and (3) neurofibromata. The first two are fibroblastic but are easily distinguished because each retains the characteristic morpholo y of the tissue of origin Only tumors of the last group contain nervous tissue.

The encapsulated tumors the most important group treated by the neurosurgeon include 30 per cent of the intracranial tumors and a relatively greater percentage of the spinal cor i tumors.

The author reports upon thirty two encapsulated tumors the histological characteri itis of which have been studied by the improved Del Kio Ilor tego and Caral staining techniques 'A description of the gross pathology of each group is given

Neurofibromatosis of von Recklinghausen is a sy termic disease often show ing hereditary tend a cie. The pigmentation and hypertrophic changes of the skin ar e bel eved to be the results of vide spread thickining of the rerves. Congenital sho normalt vo for the perspheral nervous system is thought to be a factor n the development of the neopla ms. In Trotter's opinion the presence of increased connective it sue about the nerve in dicastes that improper insulation of the fiber sawses.

lagen fibe s of unifo m calibe throughout are found in the tumors. I broblastic changes resembling the stary fibroblastomata and an aig from the endoneus all connects e tissue are sometimes discove of These a earth bused to irritation and are a source of confusion. Decemenation is common

stimulate n of the connective tissue Slender col

I ermeur al fibroblastomats are solitary en cap ulated tumors usually found in a central locition attribed to the crunal nerie or the spial ne e roots rather than to the penpheral nerie I trac anally, they are most often attached to be custic nerve. Bistologically, they are characterized by pal adm and parallelism of nuclei and a te dency to fo n nu lear eddies and streams but e chiracterized are not pathog omorie. The uth agrees the Ayllo y size that the type of the ne esheath tumor and of the endotheliona a the shroblast. The origin of it pernerural finds hat ome as the pernerural finds.

The meningeal fbroblastomata are always at tached to the dura. They never invade the brain or ord but may in ade the one lying skull cat sing the formation of e ostoses. They are believed to an e-from the ara hand to the under surface of the dura. There i ad his testroma continuous with the dura there is a single gro in tumors collegin may be different and the single ground to the different single ground the g

The arti le conta ns e cellent ill strat ons of the microscopic anatom; E S Plant M D

# SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Kopp J G Bleeding from the Sipple (Le & ule ments sanguins du mamél n) 1 la chirur, Scint 19 7 lui 115

Of 181 cases of cancer of the breast there was bleeding from the nipple in 20 (11 per cent). In one fifth of them the discharge was present before the formation of the tumor or was the only sign of the condition. In 9 (45 per cent) cancerous degeneration of a benight tumor was very probable.

Of the 45 patients with a beingn tumor of the breast had a bloody discharge. In 16 cases no tumor was distinguishable clinicully although operation revealed a duet papillom or a castic condition of the breast both of which as is well known have a marked tendency to undergo malignuit degeneration. Cessation of the bloody discharge is not a proof of recovery.

In all cases of bleeding nipple with or without a tumor the only treatment is partial or total removal of the breast. Partial extripation is not sufficient in some cases and is therefore seldom recommended Radiotherapy is not advisable as it i most uncertain in its effects.

II Its Checks

Fraser J A Study of the Malignant Breast by Whole Section and Key Block Section Methods Surg Gra c & Obst 1927 xlv 66

Whole sections of the breast afford an excellent opportunity to study the complete mammary picture of breast carcinoma. The key block system of paraffin sections to other with the whole

celloidin section system is described

Studies of virginal marital and sentle breasts demonstrate the retrivity of the activity either which lines the cul de sacs of the terminal ducts Proliferation and retrogression of the actinar epithelium are related to the arrangement of the clustua. In the breast which is physiologically active the elistica does not enclose the duct terminations while in the senile breast it extends so as to scal up the duct termination. Several different types of tumor may occur in one breast.

L'supportic dissemination of malignant tumor occurs by a vertical group of central lymphatics which extend centrifugally into the deep fascia Later intramammary lymphatics open up. There is no evidence that the subcutaneous lymphatics play a part in the dissemination. The blood vessels and the duct system may be sources of dissemination.

A localized malignant tumor is associated with widespread secondary changes in the duct and the actuar system these taking the form of an epithelial proliferation which ultimately becomes malignant

J FRANK DOUGHTY M D

Schoute D and Orbian C The Treatment of Cancer of the Breist with and without Subsequent Roentgen Treatment 1 la radi l

I rom their statistics the authors conclude that we are justified in continuing to give recenting treat ment after operation for cancer of the breast that in fact we should not be justified in discontinuing, such treatment. They believe that postoperative reentgen rayirridiation applied correctly will lessen the unicidence of local recurrences. For further improvement however the closest co-operation between the sure, con and rocinteenologist is nece size.

#### TRACHEA LUNGS AND PLEURA

Intert E and Barrety M Iodism Pollowing the Intrabronchial Injection of Lapadol (Incident Lodisme co sécuti e à linject on de lipiadol intra bronchique) Pull et n i Soc m d d hôp de l'ar 1927 fin 615

Libert and Bariety in 1928 saw 2 cases of slight intolerance to lipiodol after the intracricothyroid injection of 40 cm of the oil for the study of bronchial dilatation. The injection was followed by an exdema localized on the face and neck congestion of the face and lackrymation. After 4 hours these sequela, were greatly attenuited and soon disappeared. No disturbance of the general condition was noted.

Klotz O Cancer of the Lung with n Report upon 24 Cases Canadim M 1 s J 927 v 11 98)

Postmortem studies have shown a marked in crease in the incidence of carcinoma of the lung. In the period from 1878 to 1900 this condition was found in 0-8 per cent of autopses, whereas in 19 it was found in 0-9 per cent. Malgrant tumors of the lung constitute per cent of all malgrant neonlasms.

In discussing the etiology of pulmonary carcin more and thotz states that he has been unable to find anything in the occupation of his patients which might precisions to the condition. The influenza epidemic and gassing during military service may have been factors in its increase. Another po sible factor is the new environment that is developed around the epithelial structures as the result of chronic diseases of the lung such as fibrosing pneumonia and bronchopneumonia which cause considerable distortion of the pirenchymatou tis sucs and of the bronch leading to them. In such an environment cell metaplasia may readily occur with carcinomatous change.

The author attributes the high incidence of carci noma of the lung among the miners of Schneeberg-75 ter cuit fix hom de from t-to the high content of en c in the nickel and c lalt murel As the c n liti n is le freq e t n other mining li tricts it is not let meum o 1 1 lone klotz les not accept the view that moking came ufficient bronchial i r tation to pr duc cellula metapla a but Lelie that inc milete co il u tion of motor car fume ma beaf t

In 3 of the uthor 4 c c the condition becan in the bron hi I muco a In only cale vere there no

m t tae in dit ntorgin

A att fact rv 1 5 fic ti n f the e tumor th bar ftherell i mig ibli teem theell ary con ide ably in the ame tun r In th majority of the tum r the cell h ve an alveolar a ra ge ne t in l cub tal pol h l al or ompre l and statifie clim vb bs innucht rne fields I a h tol m al analy 1 f pulm nary tumor al e klotz tound it quit imp ble to li t ngui h the r girm th tonchil use a fom the c hi ing the r or gin in the all lar spithelium In I u

Kornblum K AC se of Prim 3 Carcla ma of the Lung Shoving Both Atelect's and Pleu al Effus on 1 J R 11 1 0 3 Hyd T L and Il lm G W T eR ntge 1010g

ical A pe t of 1 ima; T mors of the Lung te

KORNBLUM ep tacae ip mars bron hio genic ar mom f the lung hich of pecul ntere t becau u sve r ente n m at on exealed progre ive ching little l lim t f su h complicat n 1 atel ct nl 1 leur l ffu ion It a u ul lobecaue a top h el brect exten in f th go the sto the right i sel avolvement of the pulmonary sel coming from the ght lung as n of the lift u cle a d meta ta es t the b The symptom from the meta ta e in the brain ere s s ou as to over halov the p may lu g ymptom

Hype and Houses buchy e the literature on pima v tumor of th lung a l i crib th p tholo c l chag 1 l tle re ulti g r entgen nictur They tabulate 14 a

Irmay tumo of the luga found ofter r than is indicated by other tata to I fix he pe cntae c ci om t 5 pr cent viriou n n mali nant tum r 11 1er nt c t per cent m t lug tumor levelop m re fequently in miles than in f males d in the right lu g mo e f eq e tly than i the left lu g They are most common bet s en the fiftieth an I fg Iom h the I gno sixt eth vea made bef re death in only 10 per cent of the ca but a ecenticas thi been m d i g per cent

Carcinom of the lung a elv ar e f m the al e olar or ithelium Usually it has its origin i chus It grows into the In en an le ten I alog the bronchial tree or ten i to enc rele the bronchus an i e tend int the lung as a tumor ma W t stasis may occur in e ther type forming eparate nodules in the lu g or el ewhere in the body Sarcoma gen erally simulates the second type of carcinoma but ongunates more commonly along the smaller b onchi of the lung | I critomata are generally co tic and ha e smooth surfaces. They contain firm! and occasionally bone and teeth or even parts of a fetus. Mi ed tumor are ci cumscribed masses f varying size and location in a high cartilage and bone predominate

The roentgen appearance of the very rare care noma of the alveolar epithelium i that of a tumor mass n the parenchyma of the lung. It may be urrounded by an area of pneumonitis o atsintence may become necrotic and cavitation may occur In the case of bronchial epithelial ca cinoma of the fir t type no diagnostic roenteen find nes may be pre ent in early case When a br nchus i blocked atelects a occur and fluid may be found Fytension along the bronchial tre may accentuate the badows. In the common type of bronchogenic care n ma there is the hadow of a tumor mass at th fung root Tie outline may be smooth but usually is regular i th radiations i to the lu Br nchiectast p eumonitis fluid or other

compleations my alter the find ng

Sa ma simulates this latter type of carcinoma n d el pment and appearan e le atomata pro duce mo th lense oval h do near the medi s tinum ometime ith evidence of contained fluid or bo e Tecth al o may be lentified Mixed tumors appear a roumsented lobulated shado s con tax no areas of the de sty of hone hich differ ntiate th m from echinococcus cysts. They may occur in any l c tion

I ldst on to the direct roentgen find ags of the tume an lit complications other features of im p rtance may be presented. On the affected side the I apl ragm may be high and f xed and the inter Dack narr ed The nude stand contents are d

pl cel to and the side of the tumor unle s it i very large or ther is e ce sive fluid. The lun u unlis shows a compen atory emphysema

The ro ntgen fin ling of primary lung tumo 5 e extremel var at lean I may e emble tho e fo nd in ab ce s aneurism bronchiectas broncho pneu ech nococcu ev ts encyste'i emplema foreign loties gangrene Hodgkins d case and ther m list is all masse interlobar effu ion leuk mic infiltrat i lobar pneumonia massive collape metastatic maligna t disease pl ral plaque pl sy ith effusion meumoconi i po t influenzal p oc se pulmonar, tuberculosis rph lis tuberculou ab ces of the spine and tumos I the thiroid thimu pleura an' other near by structures

The following co cl sions are upp n led

I mary Jung tumo s are not o rac s to comp only belie ed

1 att mpt at earlier lag osi houl I be made In unle stand ng of the und les g patho log cal proce in c ntinu ty i nece sary to the in teror tation of the roentgen finding

1 A correlation of the clinical and roentgenological finding as necessary for the diagnosis

5 I arely the roentgen findings present features which are practically pathoguomonic. Among the more sugge two findings is that of a darse hilar mas with nodules and radiations extending into the lung.

ncia

6 The most common or typical lung tumor is a certainom of the right bronchal tree in a male in the sixth decade. Fliss appear in the roentgen findings as a hilar shadow with radiations extending into a small immobile lung field but may possibly be obscured by shadows of preumonic or other complicating processes.

\*\*Dolla HATTER\*\* M. D.\*\*

#### HEART AND PERICARDIUM

Winslow N and Shipley A M Perleardiotomy for Pyopericardium A Review of the Liter ature to May 1927 and a Report of 10 New Cases Irel Surg 9 N 3

Winslow and Shiples report to cales of proper cardium which were treated by pericer hotomy with a cure in 60 per cent and death in 40 per cent. In their first 4 cases approach was made by trephining the sternum but liter the approach was through an inci ion parallel with the left costal mirrin with resection of the fifth sixth and seventh costal cartilages. In cases approach was made from the right side and in 1 case by resection of the left fifth costal cartilige.

In every instance the perioridium was thick and taut and the heart eemed close to its anterior will. The periori lium is easily recognized hecause it ignay thick and opaque in contrast to the pleura.

which is thin and translucent

The authors review al 0.118 cases reported in the Interature making a total of 1.8 upon which their statistics are based. The ratio of males to females under the thirtieth year of age. I neumonia seems to be the most important crusative factor but gunshot and stab wounds and osteomielitis are frequent causes. Only 3 cases have been class field as allopathic. The chief infecting orginisms are the pneumococcus streptococcus and staphylo coccus.

I uncture has been practiced quite extensively for both drignosis and treatment but when done for treatment has invariably failed to give lasting results. It has been condemned as being too hazir dous and not necessary for diagno is. When a paration fails to disclose pus and the clinical signal indicate its presence surgical measures should be initiated promptly. In the cases reviewed the amount of pus varied from a few drops to , soo c cm and in the majority had collected behind the heart and pushed it forward against the antenor pericardial wall.

I he diagnosis depends largely upon recognition of the diseases in which pyopericardium is a complication. It is made by a careful physical and

rountgenographic examination of the chest supple mented if necessity by paracentesis of the per cirdium. The most common signs are enlargement of the precordal dullness a rapid pulse disponed distrat and weak heart tones elevation of the temperature and exanosis but frequently many of these are missing. Of particular interest clinically is the occasional absence of fever. The bottle shaped roentgenographic shadow in the center of the chest is of great significance.

The best treatment appears to be open drainage at the earliest possible moment as advocated by Caston but regardless of the time that has elapsed between the dragnosis and the operation the proportion of cures maintains a fairly uniform level klose and Striuss state that it is best to operate

before the exudate has changed to pus

The authors report cases of pericarditis with effusion accompanying osteomichtis Examination of the fluid at the time of the operation showed it to be starile but after a few data it was distinctly purulent. The occurrence of recovers in both instances suggests that it might be well to drain all potentially purulent cases. The authors believe that after the evudate has become distinctly purulent a raisonable delay does not materially compromise the chance of recovery.

Operative intervention has been condemned as unwarranted on the ground that if the patient lives he will ooner or litter develop a fatal obliterative pericarditis but g of the cases reviewed proved this assumption to be incorrect. From 5 months to 21 years after the operation 5 of the patients were alive and well and at their usual vocations with cardiac boundaries within the normal limits. One patient had adhesive pericarditis but was still able another died from it.

Arm different methods have been used for drainage with about the same results but by far the greater number of surgeons prefer tube druinage. Usually 2 tubes are used 1 placed in the cul descence on either side of the heart. Irrigations with any one of 15 solutions have been employed. The mortality in cases so treated was 48 per cent. In several cases in the reports of which irrigation was not mentioned the mortality was about 40 per cent. Patreme care is necessary, in irrigation be cause of the frequent occurrence of plugging of the catheter with pressure on the heart.

The prognosis of propericardium is always grave but by no means hopeless. The most important factor in the prognosis is the etiology

CHESTER L CREAN M D

#### **ŒSOPHAGUS AND MEDIASTINUM**

Moore I The Pathology of Esophagestasia (Dilatation of the Tsophagus without Ana tomical Stenosis at the Cardiac Orifice) J I ri ii 1 c Ool 9 7 in 5 7

Three varieties of dilatation of the asophagus are described—the fusiform the pear shaped and the

S shaped In the first the lowest point is the cardia There is no increase in the length of the canal and the greatest dilatation occurs about midway be ty cen the level of the cricoid cartilage and the eardia In the pear shap I variety the ecophagus is dilated in its lower one third and shows the mot marked dilatation just before ts p sarge through the da phragm as in the fu if rm type the cardia is the most dependent p rti n In the S hapel variety which is th e t f the upper end at the cricoid and the lo er and at the card a are more or less to ed. The an I ben is and a crease in le oth It cou er usually thad the ght The dlate! portion re to upon the di phragm. From there at pas es up rd a d to the l ft 11d then through the dini hraum ta high lel

The mu cular c at of the 11 lagus is n t alw so hypertroj het. In two of the authors e ses the wall were thinner than normal while in the protocopy of the protocopy of the the thinner than normal while in the most videly dilated jort in the the like I concru of flu d and conte t at ut p v in many cace seems to indicate that the civilinion is du not to spasmout the mechanical quarties are in surrou ding part. The author report cace of this type in heh

o sophagoga t ostomi v as perfo n e l'at the ca l'a

of the stoma h the god re ult

Moore agrees th K lly that de t uction of the
ner e end g f Aue bah plevus hy degenerati e
change m y acc unit for the lo of iormai mu eular
contraction and r laxat on The e ult of such le
structin ould be veracti of the crula filers

The cau e may be a touc ond to:
The article cont i ca historie and photo

graphs of each variety f dilatati n
W | w | J | J | M D

Wasson W W Tlym Stidor J i W i

Infant ith re piratory st idor may be d vide l into 4 groups

The e who at birth make a re pi atory noi e

probably due to mucus

Tho bet een a month and a vear old with a strido hich su ually attributed to the thymu.

3 Tho e ith a omalies and t mos in which there is definite eviden e of a pathologi al co d tion to account for the strido.

4 Those with fefinite infect o of the upper

respiratory passages

Thymic tratori gene ally suppose to be the result of pressure on the traclea e erted by the thymic on account of its size of pe hips through some internal secretion. In the author's opinion it i quest on whether many of the case thought to be thymic stridor are lue to derangement or enlargement of the chymics.

The thymus ormally beg s to gro at about the birth per od and reaches its maximum at about the end of the first year of life. After from 8 to 36 months it is usually not detected in the roentgeno gram. No doubt many factors m 4 fy six gro th but as a rule the smaller glands are found in under nour shed small children while the larger glands are found in well nourshed large children. In many cases in which a large thymus has been found at uutops; it has been considered a predominant cause of death no doubt often erroneously.

During the past few years the author has had the opportunity to make roomigenological studies of infants from birth and in a considerable number has noted e idence of branchial or pulmonary infections in the first few veeks of lie. In such cases the paranasal sinuses are often infected as has been

noted by Carmody and Dean

It is quite probable that respiratory infections occur much earlier in life than was formerly believed Walton I as suggested that many cases of stridor in minists a caused by these respiratory infections as young children cannot thoroughly remove mucis from the traches. Many such cases are promptly

r based by the use of atropine

A number of cases are reported in which different forms of treatment were used with about equal results. Treatment of the respiratory or paranasal in fections gave some relief. The cases attributed the e-causes did not apparently differ from those of presumably thymic stridor. The fact that roentgen are thereing proved satisfactor. In some cases a do it warrant the opinion that the thymus gland was the causati e factor. The author does not assume that the thymus i the principal cause of stridor merely bec use it is enlarged. He see rehe for other possible cau es by a thorough routine examination. While radiation has given good results it is appar

ently no better than other forms of treatment and a not to be cons dered a specific

HAROLD M CAMP M D

Remer J and Belden W. W. Roentgen D. g. osls
and The app of the Thymus in Gilldren 1
J. k. tg. i. 19.7 1.9

B ief cons deration i given to the gross and nero copic anntomy and development of the thymus. The p thology of the gland is discus ed relate to the pime death thy nee asthma and status thymno lymphatica. Various chinical types of the most supported of varying degree accompanied by a jeculiar crowing inspiration him on as thymnes study. The condition may per 1.1 to addit hie.

Its recognition dependent largely upon roentigen examination. This mut be carefully made. The author dec the their tech ique. The shadow of the enlarged thy mus as seen on the roentgemogram extend on both side of the spine. It is wider bel within above and mer es with the shadow of the big of the beart. Occasionally the \text{V} ray find figs are megative, when the clin call petue is disgossif.

The results obtained by operat on are unsainly lact ry. Radium has been employed successfully but sbould be used only by thoroughly competent and experienced of crator. Roentgen, therapy the regarded as the treatment of choice as it I read by

available practical easy to apply and safe in competent hands. The authors give approximately one tenth of an erythema dose of rivs equivalent to an 8 in spark gap filtered through 3 mm of ulum num. An interior and posterior area is exposed each time and this treatment is repeated at intervals depending upon the results obtained. The average number of treatments required is four or five.

#### MISCELLANEOUS

Heuer G J Further Experiences with Intra Thoracic Tumors Ann Surg 1927 IXXX1 229

Heuer reports upon thirty one cases of thoracic tumor—three tumors of the chest wall six of the pleura nine of the lung two of which were meta static ten of the mediastinum two hour glass tumors involving both the chest and spinal cord and one anical chest tumor

Tifteen of the patients were subjected to operation Two with a beingn tumor refused surgical treat ment. In the fourteen others the lesion was so far advanced as to preclude operative procedure.

Of the fifteen cases treated surgically radical removal was accomplished in nine. Eight of the patients recovered two of those with malignant tumors are alive more than two years after the operation and two died of recurrence within a year Of the patients treated by partial removal of the tumor only one lived more than two years

Of the entire series of cases 35 per cent were operable. The mortality when radical operation was uttempted was 10 per cent. The author helicies that by earlier diagnosis and operation these result may be materially improved.

FRANK B BERRY M D

Mallet Guy P and Desjacques R The Technique of Resection of the First Two Ribs by the I ostero External Suprascapular Route (Tech nique de la r ection des deux premières ottes par la voie positro externe sus scapulaire) Lyon ch r 19 7 xui 193

In the operation described the incision extends from the acromisclavicular articulation to the center of a line passing from the posterior border of the mastoid to the inner end of the spine of the scapula. It is made between the fibers of the trapezius so that few of the latter are cut and it ends at the tuberosity of the first rih. The spinal nerve is exposed and held aside.

The levator anguli scapulæ appears at the posterior angle of the wound. The deep posterior scapular vessels are exposed and ligated and the nerve of the rhomboid which crosses the first rib at a right angle on the scalenus posticus is exposed. The part of the rib lying under the scalenus is then denuded and resected. The resection must be cuinciform in order to avoid the nerves. Resection of the second rib near the transverse process is accomplished easily. Audrey of Moraan M.D.

# SURGERY OF THE ABDOMEN

# ABDOMINAL WALL AND PERITONEUM

David V C Peritonitis an E pe mental Study

Discrete desperiments on dogs to determine the path of the color bacillus from the normal peritonium from the peritonium high is under going different grades of periton us and from the peritonium his ho tains train ud to A vector of the expering us is presented with the folloting conclusions.

r Colon bacill p ss directly into the blood stream a vell as into th lymphat cs from the

normal perstoneum

A well de clope I plastic I critonitis prevents the pas age of the bacillus coli from the peritoneum into the blood stream or into the lymphatics empty ng into the thoracic duct

3 I esser grades of pe itoniti prevent the pa sage of the ba ill cohinto the blood steam but usually do not pevent its pa sage into the hambatics

4 Colon ba illi injected into the per toneum hich ontains a t ansudate pass rapidly and in creat numbers into the chyle from the thoracie

great numbe s into the chyle from the thoracic duct and directly into the blood stream

5 By analogy e may assume that n a vell

5 Dy analogy e may assume that in a very developed general infe thous periton its bacteria do not pa s directly into the blood stream or into the lymphatics draining into the th racic duet and that the major problem in per tonits is not the development of a septi emia

KD (GAI) 41

#### GASTRO INTESTINAL TRACT

Alva e W C The T eatm nt of Ne vous Ind

If are u ges a moe e sympathetic attitute to ard ner ou patient in Imphasize their need for est. He complains that ho; tals ign e the f ct that the ck are helpe Im to the sleep they get bet een 5, and 9 am. Rounds at 8 am a e er, hard on the pat ent who do not fall asleep until 4 am.

Object on is made all to the pre ent tendence to give patients diet 'it he high co tent of b an and other roughing and it an ins. The eccu efficulence and ind et in and can be dipens! It had ing the patient comparated, shot stay in the hospital Alvarez bele es that his smooth det is the safest for egular ue in hospital.

He maintuins all othat surgeons would be a much better results nd that ther patent ould slep better suffer les from nausea a d reco e more quickly if more use ere made of barbitune acid derivati es such as be bital adalun and bromural and less use were made of mo phine. The newer soporties have a more lasting effect and quiet the vomiting center.

Robinson V P A C s of Perforati n of a G stric Ulcer in a Boy of 12 L cl 927 600

The patient whose case is reported gave a h story of gastrue pain for three months and o e attack of severe abdominal pain. At operation a perfoation of the stomach? In across vas found in an ulter in in diameter on the anterior wall of the greater curvature. The opening was closed and the ulter infolded by catgut sturres. The patient was dis

charged cured two months later
MARCUS H HOBART MD

Dansey St J W A te Pe f atto of Gastric and Duoden 1 Ulce if d J i t l S pp 9 7

Perforation of chron c gastire ulcers occurs more commonly in males than females po a bil becau e of the anterior position of gastir culcer in the male. Its nuclence i hi hests between the ages of 24 and 45 year. There usually a preperforation stage; ulcers. When the ulcer has e oded to the peritoneum even a slight increase in the inter all pressure i sufficient to be right out that rupture. Buyute may be caused by a meal hunger contrictions of the stomach or physical evertion (e-pecially when the stomach is fully during sleep perhap all o by the wish time musultair contraction of the stomach.

Practically 90 pe cent of perforated ulcers occur
in the immediate area of the pylorus either on the
gastr c or the duodenal side of the sphincter
In all case there 1 a hi tory of attacks of indi

tion The first symptom of upture is a consist stabling by a in the piper abdomen This is followed by rigidity of the upper abdom all mut cisyomiting in one common before the dee, beginnent of pection is. The breathing is shallo and short and the facial e pression is day an and my nous. The pule at first slow but with the one of opent in it becomes firster and the abd men become denieded. The gastre contents in c. se of leer are highly acid and terile. When the disposit i made promptly void ope tion is done with na few hours the mortal it rate greatly dim a shed

The uthor descr bes the u u l procedure of suturing the omentum o er the site of rupture and

the estable himent of dramage

The adva ability of performing a gastr jeju s

t my at the 1 me of operation is open to di cu on Th author is 1 fa or of thi procedu e unle s the pat ent s condit on is very poor. He gives the follow no reasons

I As a rule it does not increase the ri

- 2 Gastrojcjunostomy must be accepted as an essential step in bringing about the cure of the ulcer 3. There is much less chance of leakage after the operation.
- 4 A gistrojejunostomy prevents the possibility of obstruction when a pylone or duodenal ulcer his been so infolded as to occlude the lumen

HEPMAN H HUBLE M D

Abadie J Three Hundred Operations for Ulcer of the Stomach 264 of Whileh Were Pylorectomes (Apropos de 300 op rations p ur 1 rede] e t ma dont 64 pylor ctomi) Bill 1 m m 5 rtl d chir 102, fliu 0.14

The cases reviewed included nicers of the list three fourths of the stormed and the first parts of the duodenum. The treatment of uteers high up on the le ser curvature near the cardia and of uteers in the third portion of the luodenum 1 quite different. Uteers should be classified chiefly into those near the pylorus and those far from the pylorus rather than into those of the stomach and those of duodenum. Among the authors of access of duodenupylorectomy there were 14 leaths some of which were due to errors of technique and others to pulmonary complications which might perhaps have

been prevented

Simple resection of an ulcer is never sati factory
as the removal of a lesion does not cure the disease
Luclu ion of the pulorus is not justified because it is
a difficult and as serious as pylorectomy and does
not decrease but rather increases gastric hiperse
cretion and hiperacidity. Gastro enterostomy is
buter because it puts the ulcer at rest changes the
dynamics and chemism of the stomach results in a
remander cure and its enterpretation grounds.

avnames an i commism of the stomach results in it permittent cure and i le serious than gastropy lorectomy. The author use it in about i in 10 cases 45 a rule he prefers duodenogastrectomy. This operation removes the le ions prevents their possible transformation into cancer and profoundly changes the mechanical and chemical conditions of gastric function because it removes the pylorus thereby changing the nervous connections and remove also the greater part of the secretory area. In author has seen a number of eases in which

there was no microscopic ulcer but the pylorus appeared to be thickene! In o such cases in which he removed the pyloru - veuer resulted. In other cases he performed a gastro enterostomy at first but was obliged to perform a pylorectomy liter. When the risks of pylorectomy sum out of proportion to its alvantiges over gratro enterostomy. he performs the htter operation

Abidie emphasizes the necessity of delaying operation until the blood utea is re luced to approximately normal and the importance of prophylactic vaccination against postoperative pneumonia. He usesspinal are these induced with the statement of precessing the statement of the statement of pre-

coded by an injection of cassement He never uses morphine or scopolamine. He has been obliged to employ ether any the in in only cases.

LUNEL G MOPGIN MD

Odelberg A Primary Resection of the Stomach in Terforiting Gastrie and Diodenal Ulcers 1 t | I urg 5 a id 19 7 km 159

The author reviews o cases of primary resection for perforating gastric or duodenal ulcer. He draws the conclusion that methods of resection may be used even in early cases of perforation.

I crsson M Final Results of Gastric Resections for Cincer | 1 is Sirg | 19 | lexx 1 3 r

In this article the surgical treatment of carcinoma of the stomach is reviewed on the biss of 1 150 cases. In 330 cases in which only exploration was done the operative mortality was 17 1 per cent. In 450 cases treated by gistro enterostomy as a palliative measure it was 3 1 per cent. In 360 cases a radical receivon of the stomach was performed.

The author has mide a special study of ea es of radical gastne resection and has succeeded in tracing the mitority of them. He points out that during the list operat the operative mortality of gastne resections has risen considerably, but the is due to the more relical measures employed tody, and to the fact that many case previously considered in operable are now operated upon

Of the 36t patients subjected to resection to were men. The types of operations were the Bullroth I Bullroth II and the I oled The total mortality was 3 percent. The Bullroth I and I oled operations have a higher mortality than the Bullroth II procedure. Lighty and five tenths percent of the patients dued of recurrence of the carenional within 5 years. Iighteen patients were slive and well from 7 to 20 years after the operation.

In several of the cases in which gool results were obtained the growth was large In or 3 cases a resection of the transverse colon was necessary. In noof the cases with successful results was there involvement of the regional lymphatic glands

The Billroth II and I olya operations proved to be far superior to the Billroth I procedure

In the author's experience the scirrhous type of careinoma has shown a much greater tendency to recur than any other Harden W. Woorly M.B.

Devine II B The Status of Gastro Enterostomy in Gastric Surgery Med J 1 strika Supp 9 p 67

Devine reviews the opinions of English Continental and American surgeons regarding the status of gistro enterostomy

The fundamental physiological aim in gastroenterostom is to obtain an ideal emptying time. The emptying time depends upon what Alvarez cill the gridient of the stomach and intestine and on the distance of the stomach from the pylorus. The farther away the stoma is from the pylorus. The quicker the emptying time. In the author is cases of gastro-enterostomy a skiagram is taken after the operation to determine the exact emptying time and a fractional test men'l is carried out to find the acidity as a guide for postoperative treatment. Case of unsucce sful gastro-entero tomy ful into tvo group (1) tho e ith ulcer formation and () tho e ith errors in the gastrue motibity manifested by nausea as isking e sation vomiting darrhoa. Ith opiou expl is movements an great to of weight and e ergy an lexee is spur formation at the anast most.

The cause especially of the er or in gastric

motilit may be e plained as follo is

r The afterent loof 1 too long and a t 1st n the application of the inte tine to the stomach was not not ced

2 The loop is to short and slight t has no room to untvi t

3 If e loop 1 kink i near the anastom si

4 The stoma pluc I in the retentive deep peri talt c area too near the pylor

5 In the very liated t much f pyl riest osis the stoma s its n up to 1 th cv la and le ser curve by the po toperati e contraction and r tr e

tion of the d lated ga tre mu le

6 The toma 1 puckered by b mg tit hel nto
the rent in the trans er e m s colon on the i tes
tinal s de of the anasto o 1

7 The gastric and te tinal u cle lack a normal gradient

8 The stoma 1 to 11 or its direct 1 i

wrong or it i to lear the sr cur atu

Spur formation cur mot frequentl in e y
large t mata place i too high on the potent rivall

or too fa toward the fu du II s N H II Mi

Fedeli has written an art cle di puting the priority of the v ork of Ciminat von the effect of the Billroth II resection on the function of the pencreas and on intestinal ab orption but Ciminata points out that his method was different from that of Iedel Fedeli studied the external secretion of the pancreas in dogs with pancreatic fi tu'a after exclusion of the pylorus by on Eisel berg's or Pa lavecel o method Ciminata m de two series of e periment in one of which he studied the intest nal abso ption of fats and nitrogenous sub tances after resection of the pylor c part of the stomach by the Billr th II method and in the oth r of hich he studied the external secretion of the panceas a dogs th permanent pancreat c fi tule after re ection by the same method. He object in both series was to study the external s crett n of the pancreas after deviation of the cd hyme from the duodenum He still claims prior ty fo his method as it was different from that f Fedeli He i glad to note that the results by the two method are the same

AUDREY G MORGAN M D

Flot F J Flatulæ of the Small and Large
1 t t ne 1 S g 92 l 1 4 6 464

I it bmits h di cu ion to fi tuke above the le el of the rectum. He clas if e such intestinal isstule a (i) fistul opening externally on the abdominal all () op ning between the lumna of hollow vice v and (3) fistula formed by the ruptur ing of an abscess into a hollow vices.

It tules in the fir group may cau e character the symptoms or may be found only on evploration to support the control of the c

The character of mo t intestinal fitule can be de m ned with the \text{Tray after the administration of a bi muth meal or enema. In the small into tine the location of a fistula can be estimated roughly from the length of t me elaping between the oral administration fan and he de and the appearance.

of the ive the discharge

Inte to all list he formed surgically for the rehelf of tru it in or interfal pare a usually close put with but occasionally they person and the oping is a the upper part of the interfal of it it charges the major potion of the interfal on the its tool ure may be both seriou and difficult.

The trainment of test al fistular is concernative or ruleal. By more prompt operation for strangulating of the test each of the test of th

onservative te tm nt hould all ays be tried e cept in cases of debilitating duode all fitule. The irritating effect if the discharge on the sha may m time be controlled by the application of suitable emollient and if equent chain each the dressing.

An effort hould be made t decrease the discharge by the pre ure of graduated tampons

I II ag appendicatomy faccal fistule are much be frequent if the stump of the lg ted appendix but led by a put estring suture of absorb be material. When this impossible because of fir shift yof the event wall the omentum should be sutured of or the doubtfular 1 I de trutton of the intestinal full contigue u to an absces the inte time so lo lib or escerted and an an stomos effected if the

Patient conditio will permit it

For fistulæ of the signoid colon which are often
due to a ruptured dive ticulum or pel ic abscess

co e ati e treatment i best

In the treatment of fistule of the upper interiors radical men ures reusually can e ous. As allowed by Koebler attempt should be made to reestablish the normal passage of the intestinal current by the introduction of the hor zontal portion.

of a rubber T tube. After the size of the fistulous orifice his been materially reduced by granulations the vertical and outer horizontal segments of the tube should be severed and the remaining horizontal erment left to be discharged through the rectum

Radical treatment is indicated when conservative treatment fails. Either the simple extraportioned suture of the orifice of the fistula or the more formid able suture or resection may be attempted

In the treatment of complete fistule of the lower part of the small inte tine in which the distal segment of the inte interested into the peritoneal cauty lies at ome distance from the anterior abdominal the author follows the mesentery of the proximal loop to its vertebral attachment and then tracing it downward and to the right dissects close to the mesenteric layer until the orthee of the distal loop comes into view. He then makes an end to end anastomosis.

He reports the case of a woman on whom a myomectomy was done eleven years ago. In 10 4 the patient had attacks of low abdominal and rectal pain fever and diarrhora. At operation, an extensive abscess was found. Thereafter a sinus persisted in the abdominal sear. In 1025, the sinus was found to communicate with the small intestine but its discharge has gradually decreased and the abdominal sear has become progressively more depressed so that healing will probably result.

In the di cussion of this report Morris stated that if the inner opening of the fistulous tract is far enough away from the abdominal wall plastic exu date will usually close the tract spontaneously. In many cross of fistula, the injection of Beck s bismuth paste gives good results. In a case of fistula due to a large ovarian abscess one injection was followed by cure.

HEYD classified intestinal fistule into four groups (1) those occurring from the perforation of a marginal ulcer into the colon (2) those occurring between pelvie abscesses the tubes and the sigmoid (3) those occurring between the gall bladder and duodenum and (4) those occurring after gangrenous perforative appendicitis. He reviewed the surgery that is necessary to cure a gastrojejunocolic fistula and cited a case in which a no loop gastro enteros tomy had been done previously He stated that fistulæ in the duodenum heal well and are of less importance than those occurring from the opening of a jejunal stump following resection. Since all in testinal fistulæ are different he believes that each must be considered separately

DUNIAM reported a case in which he injected oldoform and ether into an abdominal sinus which exuded pus but no gas or faces. Soon thereafter the odor of ether was detected on the patient's breith this indictining a connection between the sinus and the intestine. The sinus closed without further treatment.

BRICKNET suggested that in I hot's ease the in testine may have been invaded by an endometrioma or the sinus may have had two communications one with the intestine and the other with the uterus or a tube

Douglass discussed two cases showing the difficulty encountered in determining the etiology of fistule. One was the case of a man with several fistulae following operation for double hermia. At a second operation a stringulated femoral hermia was found and a cure was effected by a temporary eccostomy and intestinal resection. The other case was that of a man upon whom an ileosigmoidostomy had been followed by a faceal fistula. On the supposition that the anastomosis had given way a second operation was performed. On dissection of the fistula a small hole in a loop of the small in testine was found.

El DM IN reported a case of combined external fistula similar to the ease reported by Fliot

STETEL ealled attention to the fact that eigarette drains may cause fixed fistula. He believes however that abdominal drains should be left in place for at least a week in order to establish a definite intustract.

AUCHINCHOSS, stated that in the treatment of intestinal fistular he has used a sea sponge with a hole in the center for a suction tube. The sponge takes up the excess fluid as it gushes out. He has found also that drying the wound with an electric light lamp is of great and. He warned of the occur rence of freal fistular from the division of intestinal adhesions.

BANCROFT said that one of the ways of preventing fistule is draininge of secondary polyic abscesses following appendicitis through either the cul de sac or the rectum

In closing the discussion Extor reported that he had never used Beck, a prate or opened pelvic ab scesses through the rectum. Heatled statistics showing that duodenal fistule usually head spontaneously. He helieves that abdominal drainage is best established by means of a flexible rubber tube with a strip of gauze running through it. The tube should be removed at the end of the second day and there after changed daily. At the end of a week, its use may frequently be suspended. The period of drainage should be as short as possible.

LARL II TANNENBAUM M D

Muclaire Spinul Amesthesia in Intestinal Occiu sion (A propos de la rachian'sthesie dans l'occiu sion intestinale) Bill et mên Soc nat de chir

9 7 lm 472

Loponte A Spinal Ancesthesia in Acute Heus
(La rachianésthesie dans I ileus ai u) Bull et
én Soc nat dechir 1927 lm 474

Vanlande Boppe and Okinezze Spinal Ancesthesia

Vanlande Boppe and Okinczyc Splinal Arresthesia and Heus (Pachian sthesie et iléus) L ll el mem Soc nat d ch r 19 7 li 1 479

Picot Spinal Arresthes a in Intestinal Occlusion (I a rach and these au cours de l'occlu ion inte ti nule) Bull et i i 5 c ut de chr , li 1 486

MAUCIAIRE reports cases in which intestinal occlusion was overcome by spinal anaesthe in One of them was a case of strangulated hermin and the

other a case of spasmodic ileus In other cases in hich the method was triel late it failed Both of the ewer cases of tumor of the large bowel To let a about 30 successful re ults hase been published lut Maucl ire believes g dre ults are except inal an lithit the erea great man fa lure

Spinal and the ia m v cue the r duction of a bermi that has be n i relucille fin it loe probably by overcoming the contricture of the mu cle of the abdomini all but there is som danger in lel n the relutin I true int tinil by treat in it is succe ful much? I frequently Sometime fillog the hirt of grigge eof the net time begin. Therefore if n intest alleu i ercome by pin lag at the la Vauel ercome if a unique for the most of me la explorito lp time profin leith

immedately or aft fe hur i tiul ly f

LAIDINTE calls att uti n t cee t rec mmen la la the min the terment of acute D. llas rprtlanmbr fcae a ! ha titel that palan the me em to over come all a 1 t f leu imme hat l Lap nte say that spin line the a som time foll d by sullen and property and further evacation f the inte tine Ih matte e cut I hourla 1 evilently cane from thom Il at the a tle reult of catrating fith to at fithe tital tact Ho eye Lap itelli the thonifom of ile is the converse melinal a ethian appilicateur I uppit fithill f her fer t the hh(buutl ptl as acute po toperatival u b t hi h Lar inte believe ere ca e of paralyti il u The pa age f to la lthe lyt f strangulate lbe a may occur ft my to m f the a ndde not of inte the nc it f m > all of the of struct o

Duy 1 S f npl 1 cet 1 luc to me banic lintra al dominal b tr tion are cted Fic f the e c cae of cacrof the cln Lapo te hid th t lu 1 f m cneer f the col n is n tan a ute leu it 1 the latting fa prolongel in mplete che c etent 1 may b overt me t mpo vi b by pin 1 vi the is to suffer in degree t permit the page 1 tunal

content

The umer a oning apple to the cae i this group in he has been dead to the ce in hich it a the result of a

sl ght olvulu

The temporary relatin brought about hy the pnlana the aie thean the theo b true tion habeen more defin better to c mpl te thoper tion than the ptent buck the lasses was curly man the laten lat

 Vanlande an 1.4 by Boppe. In Vanlande's cases in the obstruction was due to cancer of the colon the spiral aresthesia falled to brin about in execution of the intestines. One of the patients diel showing the danger of spinal and the 1s for persons who are yeak and tone. Spinal and thesis cau e a sudden hypoten ion and in patients already suffering from hypotens on this may prove fatal.

In Topics first case one of postope attwe pantet electricity of the television of television of the television of the television of the te

The author belie e that some of the sudd in the full mg panl ann thesia are due in to the an thesia itself but to the relaxation of the cclu on which thro is a lare amount of to te int t al content into the intest ne below the dieu he it ab orbed Thi langer the greater the his ber th occlusin I in low occlus ons in the tree tent in practically moneysteally moneystead.

It buthor pno the results of spinal and this is enoter; builting The anasthe is done through the spinal through through the spinal through the spinal through through through the spinal through through through the spinal through the spinal through through through the spinal through through through the spinal through through the spinal through through through through through through through through the spinal through thro

Pior tries that is opinion spinial anasshe at erv I ng rou in intestinal occlus in Theonh in one of the pinion spinial anasshe at erv I ng rou in intestinal occlus in Theonh in occor creft cases of b truct not it int to One of the patient with an unfa or alle result s = 6x vear ol i man with a tumor f the cl b had halocclus in for 4 day He is x vaka in ablomen as greath d te led Imm I ately after the indulution of the spinial and the all became I land the in p to full flot at reu ct tion. The other patient vita unfa or ble e ult was a oman ho had had cl soon for 5 day. In this c set the spiling at these a loolo ei by repeated attacks of whoope but recove y resulted follo ing the

ta nous ection of m m of a lten li.

The author hie e that the cuse of these recident withe diden fall in the blood presure brught ibout bith pilane this and presure bild a love, sur thin may be fatal

In th I cus of the e report BAZN emplaizelth infiniable effect of the alsoriton tox it in I ontent by the normal loop fintet e below the occlusion indrept I a death from the cause after gene all a siste in

ALVENY said that he doe not use pinal an esthesia in eriou on e of occlu ion as he knows of death on the operating table re ulting from the hypoten in his constant.

Duvat P Spinal Amesthesia in Acute Heus (La rachimesthesie dan liliu angu) Bull 1 ii m So at de el 19 lii 500

Dural has collected 400 ere of pmal an er the an neute ileu. He groups them into ere of stringulated hernia dynamic ileu and mechanical ileus with various subgroup under the little heading. He find that pural and the abrought about exacuation of the intestine in 68 per cent of the ere of dynamic parabite and pa mode ileu and in only 16 per cent of tho e of mechanical ileu.

In acute ileus its effect varie greath in differ nt case. It does not cem to be dangerous unle s the patient is neak and intoxicated and has a low blood pres ure.

In trangulated hernia local arre the is should be used a it is more active in causing spontaneous reduction of such hernia than any other form of anosthe is

In po toperative il us spinal anæsthesia eems to be the treatment of choice if peritonitisi not evikut. The only question i whether a secondary operation i nece ary after the evacuation of the inte tine. The author believes that spinal anysthe in often brings about a permanent cure without any further intervention and that the e are the only cales in which it hould be used as treatment. However the patient hould be kept under close ob ervation and a econdary operation should be performed if the simptoms of ileu recur.

In ca e, of mechanical ileus the inte tinal exacution hould be followed by operation. Whether the operation should be performed immediately or after everal hours of rest will depend upon the conditions of the particular case.

When pinal an isthesia cau e inte tinal evacuation it ficilitates the examination of the abdomen and renders the operation less erious. Even when it does not cau e evacuation until alter the removal of the oh truction it obvintes the nece it; for handling the di tended loops to put them bick into the ahdomen makes the cloure of the abdomen easier and favois rapid di intoxicition of the organism which in Duval's opinion far outweigh the danger of infoxication from the absorption to toke material that has been emphasized by Okiniczye Duval conclude that pinal anasthe is in the vine thesia of choice in acute deus except in the circ e of patients with evere intoxication or low blood pre un.

Addent C Morey MD

Guibal P Spinat Arresthe ia In Ileus (La rach an e-the ie dan l l'u) B il et i l S e n i de el r 19 lin 29

The author has u ed spinal and the is in 46 case of inte tinal occlusion. It brought about

execution of the inte tine in only 4. In one it is crue divery enous appear and in other death In 3 of the 3 cree in which inte tinal execution resulted it did not occur until after removal of the mechanical obstacle and would probably have occurred in a few bours without the pinal are thesia. The pitients who did were well and vigorou and it any other than spinal anresthe in had been used would probably baye recovered in the discount of the state of the spinal and the state of the spinal and the

I rom he experience in shout 3 000 cases. Guidal concludes that spiral analythe 11 does not cause exact unation of the intertines in more than about 1 cale in 10. He believe it to be particularly dangerou in ileus becaule this condition 1 generally accompanied by intorucation stercors min and lock.

ALDREY ( M. RGAN M. D.

Latimore J W and Gribam E A Diverticula and Duplicature of the Duodenum with Reference to the importance of Cholecostitus in the Production of Symptoms \$\circ\{G}\) 6 \( G\) 6 \( G\) 6 \( G\) 8 \( G\)

A large majority of duo lenal diverticula arclinically latent. In addition to diverticula of the true and fall e type there are p eudo diverticula P cudo diverticula are redundant duplications of the duodenum within its retroperational heigh

The N ray inclings in the various types of duo denal diverticula are described. Differentiation of the true and fall et type cannot be made prior to operation or autops. Note of large fall ediverticulum and sale of peudo diverticula are ported. In the latter, the gall bladder was discaled and it removal releved all of the symptoms all though the diverticular side pockets of the duo denum persisted. Cholecistography is considered a neces are procedure in uch case.

J FRANK D LUHTY M D

Brenner E C Performed Ulcers of the Duodenum
11 n Strg 19 lxxx 393

Brenner review twenty even as e of perforated ulcer of the duodenum. He states that shock is not so promuent or o frequent a complication of per foration as is generally helieved. It occurred in even of his case. He noticed that ulcers about to per forate cau ed tenderness and rigidity of the abdom inal wall on pressure. He helieves that operation should be performed immediately regardle so of the occurrence of shock. The lumen of the duodenum may he reduced as much as half by infolding of the ulcer without danger of cau ing teno: In the author's case imple closure of the ulcer gave the best results.

Potosching G Perforated Duodenat Ulcer In a Child It Years of Nge Gistroduodenat Resection Recovery (Ulcera duodenal perforata in bamb na di ati anni retione ga tra-duodenal munimone) dref itil di eli 19 xiii os

A child it years of age was uddenly taken with inten e ahdominal pain in the early morning and

brought to the hospital a journey of 3 hours on the back of a mule. The mother said that the patient had had gastric symptoms and triation because the epigastric symptoms and triation because the epigastrium for several months and because the epigastrium for several months and because that distributed the properties of the past feveral had been and the properties of the past feveral hours. On the way to the hospital the for several hours. On the way to the hospital the child had younted twice.

A diagnosis of pe forated due lenal uter a smade from the rapid de elopment of the signs of diffuse peritonits and from the discovery on oentgen examination of a zone of air between the layer and the diaphragm Castro luodenal resection by the Billroth II method was followe! by recovery

Ulter of the stomach and duodenum 1 rare n childhood and perforat on is still more unusual. The author belie es that h pritients the volungest patient in hom a perfor tel vilce has been treated by gastroduoden 1 recetton. Mot f the eases have been treated by imple suite f the ulter. The autho les led that resect on v.a. is dicated 1, his case because the lesion v.as a chro ic call us ulter the condition of the herit v.as good and the peritonitis was still limitel toth. ubheptite space

# Sherwood W A to plasms of the Heory 11al e

New 6 on the of the gastro nee tinal t ct are found most commonly at the po nts f greate t construction here the alimentary tube changes in structure and function and beer there is a val e or valve like arrangement for the e pulsion of the food current from one [a t to another These points of greatest construction are the exceptinged or free of the stomach the puloric ring the decoreal all e the rectosemend unceture and the anoprectal pouch

The author reports three cases in which the neo plasm originated 1 the septum dividing the execum from the ileum and cau ed an intussisception Histological examination of each tumor ho ed three types of pithological change—carcinoma fibroma and lympho arcoma

MF LERH NMD

M 1 W E Gabriel W B Gordon Wats n Si C Ro 1 nds R P and Otle's Discussion on Colostomy P R S M d L d 9

MILES As a result of the advances that have been made in surgers the lumbar colostomy of pre antiseptic days has been superseded by the more logical and mechanically improved sigmoidostomy. If first the sigmoidostomy as made in the middle of the pelvic loop with a large opening in the parietes but the spur receded so that the opening became a lateral one with all the defects of the lumbar colosiomy. Later Cripps pointed out that the difficulties could be obstanted by making it eopening high up in the pelt aced by making it eopening high up in the pelt aced on the supersediction.

The essential req ement of a colostomy 1 prevention of the passage of hovel contents be ond the

stoma into the distal loop. To meet the requirement as permanent spur is es entit! When the mesocolor is short difficulties occur in maintaining the spur as soon as the supportin rod are removed from within causes the spur to recede. It was formerly thought by some surgeons that the re-ession could be prevented by dividing the lot of completely to interrupt persitalists. Divi ion of the bo-el is objectionable however as it create a weal soul terms of the complete of the removal of the removal

GARRIE Colostomi is o' bein done ith in cressing frequency and is superseding operation for the burlow of a tolding it. It has come to be an essential part of any randing operation for carenoma of the rectum an indicate operation for carenoma of the rectum and in well executed will give compartiu e comfort and in normal prevent the patient form carrying on hi normal prevent the patient form carrying on hi normal

Commo

Common indications for colostomy in inoperable or a noma of the rectum are impending obstruction pain loss of control from invol ement of the sphincters profuse discharge and harmorrha emittiple pe isanal fistular rectionagmal fi tule rectivation of the buttock and a mass of g on the outside the anus.

Colostomy is indicated all o in fibrous stricture of the rectum and for divert cultis it babses s

formation peritonits or vesicovaginal fitula

\[ \text{rare indication for the operation is acute} \]

spreading ulceration about the rectum and anus

I r cent injuries of the rectum especially those associated with frictures of the sa rum and pelvis colo tomy is a useful adjunct to local draina e It of value also for the relief of obstruction due to compression by extracted tumors.

The best inc soon is a vertical one i / in to the left of the middine splitting the fibers of the rectus muscle and large enou h for exploration should exploration be required. Such an necision is less lable than others to be followed by a ventral hermia and through it the trans erse colon can be reached. It is superior to any incis on through the old que muscles.

Fixation of the bo el is best accomplished by means of a glass rod pushed through the mesocolon

to r in from the edge of the bo el. This rod should be left in pla e for 14 days in order to per vent any subseq ent retraction of the boxel. The personeum with the posterior fiscas and the rectus sheath shoull the approximated to the boxel v all in Jayers with interrupted sutures of catgut. The skin should he elo of when necessary by interrupted silk norm gut sutures. Area she closure is necessary to increase the strength of the abdomnaal.

The most comm n difficulty is due to shortness of the pel nc mesocolon. Laberation of the box el may be frichlated by divi ion of adhesions. If a peluc olostomy seems impossible the incision may be extended upward and the transve se colon brou bt

The immed ate complications of c lo tom in clude heart falure Julmo ary complications ex

haustion peritoritis prolapse of the small bowel intestinal obstruction coma renal failure and hamorrhage

Among the remote complications are star contraction with stenosis retraction of the spur frollapse ventral herina and extension of the carcin mato the site of the colostomy

Opening of the colostomy should not be done until 48 hours after the operation unless there is extreme distention. The later the colostomy is open, I the better the chances for healing of the musion. A Paquelin cautery bould be used in the trin ver case of the lowel.

At least ½ m of bowel should be 1 ft outsile the abdomen

The excess may be trimmed off with scissors

blanket stitch of catgut 1 a ly1 if le

around each orifice

A washout with soapsuds with the patient in his left side should be a daily routine price line. It distal loop also may be layaged on afternate day

In St Mark's Hospital London a thin just to cotton wool about 5 in square is placed in with the skin and covered by a flat piece of cellulal with 4 studs facing outward to impinge on the r taining

helt Colostomy cups are not advisable

Foods with a larative effect should be not 1 I Gondon Watson Certain details of the agricult of colostomy should be stressed. In order to old vite the danger of herma, the incision if mide laratenough for exploration should be reduced to that there is just room for the bowel and glass to 1 It should he borne in mind however that if the opening, is too small obstruction may occur for aling sense may be presented by suturing the posturior and anterior layers of the rectus shearth together and the raised peritoneum to the bowel. The epigastric vessels should be avoided.

A very important detail is the prevention of tension on the howel which may cause hemorrhage

or interfere with the blood supply

A daily washout is necessary. After a washout the patient can often go until the next day without being soiled. Colostomy cups are to be avoided as they are often offensive and are apt to cause congestion and prolanse.

ROWLANDS Colostomy is a valuable operation it prevents suffering and saves or prolongs life. It is particularly valuable in carcinoma of the rectum or sigmoid and is more effective than excostomy in releving obstructions low down in the colon or rectum It is undesirable however when resection or short circuiting can be carried out without undue risk.

A small partial opening is essential. The most satisfactory location is the high left inguinal or iliac tegion. The howel is held in place he thy a glass rod orrubber coveredartery forceps but may be anchored secondarily by means of skin sutures at the upper and lower angles of the wound.

If the bowel must be opened immediately a rubber tube will serve a longer time without leakage than a glass tube. In all cases the colon must be free and

without tension

NORBURY A subumbilical colostomy through the left rectus is better controlled by the patient than an incumal colostomy

Complications of importance are (1) retrograde intrususception of the lower end of the colostomy with a parene of this portion of the bowel (1) contriction of the opening with obstruction (3) rupture of a diverticulum during acute obstruction and (4) Irola se of the bowel at the colostomy opening

Inwares When performing a colostomy it is the aim it the surgeon to prevent the passage of bowel contents from the preving to the distal portion of the colon and at the same time to prevent prolapse of the small intestine through the wound. Both of the e aims are best accomplished by forming an effective spur liv inserting a deeply buried silkworm gut suture, which bisects the wound. Such a deep suture hould never be omitted.

I rentrol a hypogratric location through the

the after treatment are contra indicated

the most attrictory for cleanline s and control A daily wishout is necessary in most cases. When the fait in the abnormally fait it is best to cut away a large area of fait and allow the skin to come down to the aponeurosis rather than to attempt to bring the just to the surface under considerable tension.

MILIGAN The left rectus colostomy has certain brawl acks (i) hemorrhage from the deep epigastric or el () central herina and (3) the proximity of the umbilicious which necessitates special attention for thanhies

Absolute control of a colostomy by the patient is practically impossible but may be aided by a daily we hout and the avoidance of laxative foods and drinks

When there is any doubt that a colostomy will be beneficial it should not be performed

litzwillium. There is not much difference in the end results dependent upon the location of the colostomy. Theoretically however better results should be obtained from a gridiron incision high

up on the lateral abdominal wall
Exploration either through the colostomy in

cision or through a primary incision is always in dieated. In cases of careinomi of the rectum the discovery of a secondary nodule in the liver should contra indicate any further procedure except measures for the rehef of obstruction. If technical care is taken a large incision should not produce complications.

Massiall Davison M.D.

Brindley G V The Symptomatology and Diag nosis of Cancer of the Large Bowel Texas State J M 19 7 van 3 5

The cluef function of the right bowel which de velops from the midgut is the absorption of fluids. In this part of the colon the cellular or ulcerating type of carcinoma predominates. The function of the rest of the large intestine is the retention of the meetinal contents until its excretion and in this

The treatment in four case of adenocarcinoma of the rectum is described in detail and the original lesions the technique of the treatment and the end result are shown in illu trations. The cases are typical of the early operable g oup In ail the re ult were excellent Although metasta 1 to the inguinal nodes de eloped early in one case sati factory palliation vas obtained. In cases of bulky lesions radium was applied after treatment - ith the electrotherm Radium was applied all c se by means of a one tube silver applicator (o 5 mm thick) co 1 taining the element th lditi nal pitration of 10 mm of bras and 0 mm of lara rubber Ile treatment as institute l with the pat ent in th knee chest position and with the use of a well lighted proctoscope. The rad um as applied in rubber applicat r directly again t the growtl the no mal rectal wall be ng protected 1 ith vaseline gauze packing There a n intral of three or four day bety een the ppli iti n

Colost my 1 valu ble aljunta t place tle field of treatment tr tan i decre ses th r k of secondary nfection. However the el a slight risk in the procedure it elf and a the ubseque t res toration Moreo er the patient u ually dread the operation and experience has hown thit effective treatment can be given thut a col tomy

Pfe ffe D B Tie Ir no pl s Underly g the Su de y of Care n m of the Rectum 3 4

5 2 9 7 L

The author renews the e olution of various opera tions devised for the treatment of carcinoma of the rectum He stat s that German surgeons still favo the various types of peri cal operations whereas French surgeons advocate the combined abdomino perineal piocedures. In England and Ame ica there are advocates of both method Within recent years Coffey Jones Lockhart Mummery and M les have develope I their t chniques to a high degree of proficiency. It has been the e per ence of all surgeons that care n ma of the rectum 1 mo e amenable to surgical treatment than any other form of gastro intestinal cancer

Hochenegg has reported upon a series of cases 800 of which vere treated surgically lour hundred and sixty one of the operations vere radical sacral procedures Of these 34 were one stage amputations with a sacral colostomy and o5

ere resections with re establishment of continuty of the intestinal tract. In the case in a high sacral amoutation as done death resulted in 41 per cent and a 3 ye r cure as obtained in 43 per cent In the 205 cases treated by re ect on death occurred in 8,8 per cent and a 3 year cure was obtaine lin 23 4 per cent

E chhoff of the Breslau Cl mc reported upon 10 1 cases in 3 6 of which a radic 1 oper tion as lone with an operate e mortality of 24 per cent nl 3 year cure in 26 7 per cent

Gabriel in a re iew of Lockhart Mummers s work reported upon 143 cases of rectal carcinoma in which death resulted in 154 per cent 13 year cure as obtained in 23 5 per cent and a 5 year cure was obtained in 24 per cent Lockhart Mummery makes a permanent iliac colostomy with perincal excision of the rectum

Miles of London and Blake Lusk Jones and Coffes in America favor the abdominoperineal method Some of these surgeons have already re ported a small serie of cases treated by their more recent technique which show a decrease in the mortalits The end results however are not yet known definitely

The author calls attention to the difficulties of attempting to preserve the sphincte's and the in lvisability of a permanent sacral colostomy lle lescribe in some detail the arrangement of the arterie of the sigmo d and rectum and emphasi es the nece its fo care in the choice of the site of

Pfeiffer shares with m t surgeons the bel ef that the result of operation for cancer of the colon will become more for orable H RO W WOOKEY MB

## LIVER GALL BLADDER PANCREAS AND SPLEEN

Hugh son W Po tal Crl tl Asc te and Its Sug 1 Treatment A R e of 26 Cas s 4 / 5 g 45

Hugh on revie our present kno le lge of portal c rhosis and empha s the extreme difficulty of the co lition Of a large series of appa ntly su table cases he made a study of 26 He point out that the re ult of u greal treatment reporte I in the I terature are difficult to analyze an I suggest that cure an I marked improvement may oft a have occur lin cases which oull not strictly

conform to modern lea of portal cirrhos: He reve s the amou therapeut c me sures for the treatment fascites in portal c rrho s and from tle tuly of his 6 selecte lea e come to the follow

co clusio I it i e tremel d fi ult to make in accurate lagnos sun the di case

2 Age se race and time offer no special ind ca t on for the mployment of surgical measures

3 The e is no re son to bel e e that surgical meas ures dopted fo the pu pose of e tablishi g col lateral c r ulation are of benefit

Hughson po nts out the alm t constant occur rence of th cke ed pe atoneum in true cases of portal cirrhosi and uggests that many of the reported cures following paracentess or some other surgical p cedure ma have been t e to obl teration of the per ton al ca to b a lhesions

HRL W WOLY MB

Hanrik R \ Tl Empty ng of il G li Bl d 1 J 11 S der An Fp im ntal Study

The e periments re seved in this article vere made in a study of the normal emptying of the gall bladder as shown by the roentgen ray during digestion. Many investigators are of the opinion that the gall bladder empties its bile through the common duct into the duodenum. Others because of a lock of undoubted experimental proof to the cettrary believe that the bile does not leave the gall bladder by the channels through which it enters.

The author's experiments were performed on dogs. The grill bladder was injected with 40 per cent iodized oil which is non irrititing and produces dense shadows in the roentgenoram. To exist emptying of the grill bladder during direction

Boyden's methods of feeding were u ed For twenty four hours previous to the injection the animals were fasted. At the end of that time the abdomen was opened under ether anasthesia and with a strictly aseptic technique, the gall bladder and surrounding lobes of the liver were delivered into the wound. The 40 per cent todized oil was then injected into the gall bladder after the vithdrawal of an equal amount of bile. In all but one cale the needle was inserted through one coke of the liver and introduced into the gall bladder only where the latter is attached to the liver by ( h on s car sult By this procedure it was possible to prevent di turbance of the musculature of the gall bla lder and to control the leakage of bile. The slight oozing if any from the liver was soon stopped by holling the gloved finger over the area This technique renders suturing and clamping of the gall bladder wall un necessary and is apparently ideal for studies of gill bladder function

After the operation the animals were again fasted until observations were made all factors were kept as constant as possible Roentgenograms of the gall bladder were made daily during the fasting

It was found that the gall blalder emptied a portion of its contents into the duodenum with digestion. The contents passed to the duodenum through the eystic and common ducts. The empting with digestion was intermittent. I enods of active emptying were usually short and could be definitely limited over a varying length of time. Emptying began within from ten to forty is minutes after feeding and ceased entirely at varying intervals.

These studies indicate that contractions of the musculature of the gall bladder are the main factors in normal emptying and that intrinsic periodic contractions are important features brought into play with digestion. There was ample evidence that the gall bladder does not tend to expel its contents during the fasting state. Respiratory movements and changes in external and intra abdominal pressure bave only a minor part if any in normal emptying but in several instances meebaneal in fluences such as the passing of a stomach tube filling of the stomach with air aspiration of the stomach tube in the stomach caused the definite passage of material from the gall bladder.

The splinater at the lower end of the common luct may be a factor concerned in the regulation of the flow of bile from the gall bladder but its action is not neces ary for the emptying with digestion Lixturnal abdominal pressure caused some expulsion of the gall bladder contents in one instance when the splinater at the lower end of the common duct was eliminated but feeding was necessary to cause marked empty ing of the ve icle

Kirklin B R and Kendali E C A New iodine Compound for Cholecystography Radiology

The ord administration of the iodine and bromine sults commonly used for cholecystography is occasionally followed by nausea comiting or purging In some instances pills and capsules fail to di solve. Accordingly, kirklin and Kendall set about to prepare a compound which would be free from disagreeable effects and could be given in liquid form. By synthesis the di todo di ethyl ether of di salactiphtbalen was obtained. This drug is a white crystilline powder. A to per cent aqueous solution the form in which it is given is clear colorless odorless and slightly bitter sweet in taste with a transitory warmth as of perpermint.

After experiments on dogs the drug was given to 35 patients most of whom had been examined previously with the usual bromine salt and had reponded normally to the test. The shadow of the gill bridder obtained with the new drug was denser than that obtained with the new drug was denser than that obtained with the bromine salt and no shadow of the compound was seen in the bowel None of the patients vomited though several had comited after taking the bromine salt 2 were purged unpleasantly but 2 of these had recently suffered from diarrher?

Further experience will be necessary to determine the value of the compound

Boyd W Some Points in the Pathology of the Gall Bludder Canadian W 133 J 1927 viii

The author has studied the structural changes occurring in the normal and puthological gall blad der. In the morbid anatomy of gall bladder inflam nation three principal conditions are recognized

Lirst acute cholecystitis characterized by in filtration of the entire wall by acute inflammatory cells and the outpouring of a purulent evudate into the cavity of the viscus Second chronic cholecus titis in which the wall is again infiltrated by in fammatory cells this time of a chronic character with fibroblastic proliferation subsequent fibrosis and serious interference with the delicate absorbing mechanism of the organ Third a condition that may be termed the lipoid gall bladder also de pendent in part upon chronic inflammation al though of a slighter nature and distinguished by deposits of cholesterol in the mucous membrane and to a lesser extent in the deeper layers of the bladder wall (strawberry gall bladder)

With regard to the etiology of gall bladder in flammation Boyd has come to the corclusion that streptococci of low virulence are the mo t common causes of ci olecystit's and that bacteria reach the organ by both the blool and the lymph stream (liver the first part of the duode um o the appen

In a study of the origin of all tone 2 min groups vere recognized the metabolic or asept c sto es and the uflammat ry o septic stones

A metabolic ton is large o al single an l hite \ t is compo ed untirely of cholesterol it is known. as the ch lester I sol tai It 1 apparently formed solely as the result fa I turba cof liver metaboli m Cl 1 terol is kept as luti n by the ble ac is but the slub lit i dependent not all upon the amount lut all o upon the elative pr no t on of the ac ! Inv fi turfa ce in the acids aniany nerea e in tl ch lesterol ma be i llo e ! by precipitati n of the latter. Ih tone i li tin guished by its raliate tructure as opposed to the concentre tructure of the entic or flammat ry tone It is a sil nt st n As a rule the gall I la Ider

ten e of inflimm tion but if the stone become im; cte l n the neck f th gall bl ller the acute stast thich then e ults a apt to be fol loelbs infetin Shuldtlest nithe ollback into the blad I raid all the hile to reenter a depo t of b hrul n calc m l id 1 n upon the chik te l litare th the f rmat nof a c m b nat n sto e a t ne of b th the metab ha a d the inflammatory type. Ih formatio of a pure clolesterol ston 1 fa tellb uch factors 3 bigh blod chol ter l (1 l th f lugh lile chole terol) and b to in the Lall bladle

The author recognize all as their ariety of

the tue p gment type. These are multiple ab ut the e of a grain of rc llack had and lrittle The contin no chok t r l Th v are the t ne which so freque thy complicate hymolyt

1 in lice

the m t common arety f g ll stones i the infective or septic type. The e are the f cotte! chole terol nigment cal jum sto es hich on sec tion present a characteri t c e n nt ic ment of laminæ All the t ie f ne family are about the same age but the ema let oandson t me even the famile In adltin the emay be ne or more large e mbinat on t ne 4 the re ult of infl mmit on of the gill blall ramitue t pus mucus bacter a and epithelial i br is p u l out Dr s an acute attacl the gall Il ller mo e or less a cl sed ca ity but as the salli the neck sub le ble rgun nt a da un l the l ttle nuclei of organ c m tter are lepo te i in r f chole terol and birubin calc um. In the nanner the family of facette lept c t ne i f rmed

Bot I think that many ston size f rme I from l poid detacl I fom o erl aded. In n the gall blad ler (as a the strawbe ry type of inflammat on) Thes nay fo m the nuclei f new stone

JOH J MALO L MD

Owen II R Spontaneo Ruptu e f tle Gail Bl dder nto th Di od nim 1

1 m n 4 years of age was admitted to the ho nt ly tha history of comiting blood The onset a ute and as followed by profu e syeating and The oils previous symptoms were gas eous cructations and acidity for three neels The temperature was 95 de rees I the pulse 90 and the espiration o A mild secondary anam as found The liver as pripable but no ma es ere felt and there a as no point of acute tendernes I rav eva ination su ge ted duo lenal ulcer but a istulous opening b t een the gall bladd r and duo denum va also c sidered

Operation re eal dat stulous opening bet on the gall bladde and luodenun which as surrounded by tirm adh sions I osterior gast o entero tomy as foll ved by une entful recovery

I C ARD L LOW M.D. Judd L S and M nt er S H Cloleste osi oftle CIf

H I M d g

G II Bladd

One thou and cales of holesterosis of the gall bladder were tulied. In half of them gall stone vere f un 1 About 80 per cent of the patients in e ch group vere femal The incidence of the con litio n eacl g up as high st bet een the thirty tith and firtieth var of age Typhoid fever i ot di the hit e of about 8 pe cent of routine nutops, case and as gi en in 3 5 per cent of the histo ies in the case re ieved Obe ity as present n 24 per ce t of the ca e without sto e and in 3 per e t of those 1th stones Pregnancy had cc rre lin 58 p r cent of the former and 67 per cent of the litt r The majority of the nomen trace? the trouble to the time of their f st preg ancy

I a as I cated in the right upper quadrant an I in the major ty of cases in each goup t radiate! i ctl po teriorly Morphine as Guir d for the el f f the pani 5 per cent f tle ca es ithout t ne n l n 4 per cent of tho e 1th tone The

l ghtly lo ge rage d ration of symptom w thout stile In | ge tion va an th cae lm t gene al compla t n both g oup qual tot ve food h tr as pe ent in 40 pr cent f the c e t thout stone and 1 50 re c t of thoe th to e Belch g or I loat ag or both occurrel n 55 per c nt of the f m a d bi pe ce t f the latte Vomit occurr l n 35 per cent of the c e v thout to a 145 pe cent f tho e th to es Junice a peent in 7 prent feach group and chill and fe er occurre li about

Il r ley J S Jr E pe ment l St dy f Cl l yth trotony and Chiest d d no tm S # # 1 J 9 7 60 DuB e F G Cl ley tog strot ms S # # 674

o pe c'nt feach gro p

s made to de Horsify e per me tal study te m ne the immediate an I remote after effects of cholecystogastrostomy and cholecystodyodenostomy on the gall bladder the bile ducts and the liver

Seven cholecystogastrostomies combined with oc clusion of the common bile duct 3 cholecystogas trostomies without interference with the common bile duct and a cholecy stoduodenostomics with oc clusion of the common bile duct were done on loss Three groups of control dogs were studied to compare the condition of the biliary system. The first group was made up of dogs that had never been operated upon the second of those that had t or more operations on the femoral and care tid arteries and the third of those that had been ub jected to I or more operations on abdominal viscera (gastrostomy enterostomy etc.) All of the operations were performed under other auesthe 11 after a preliminary injection of morphine

The technique of the cholecystogastrostomy i described in detail. The technique of the cholics toduodenostomy was practically the same

Of the 9 dogs subjected to choleevstoduodeno tomy 5 died within a week after the operation from peritonitis due to leakage at the anastomosis. The high mortality was due to partial pulling loose of the anastomosis with subsequent leakage and perito mits In dogs the walls of the duodenum are much more friable than the walls of the stomach and the duodenum is more movable and exerts more traction on the gall bladder than does the pyloric portion of the stomach The traction is due in large part to the impossibility of keeping the dogs prone and re straining their activity The normal wall of the gall bladder of the dog is very thin

In the 10 cases of cholecystogastrostomy with or without occlusion of the common duct there was no operative mortality In 7 of the 10 cholocystogas trostomies the common bile duct wa occluded and

in the others was left intact

The general postoperative condition of the 14 dogs upon which successful operations were per formed seemed practically the same Judging from the animals activity appearance and ability to gain and maintain weight the health of these dogs seemed to be only slightly below that of the control groups None of the animals showed gross evidence of jaundice and all gained weight slowly and main tained it until they were killed

The dogs were killed at periods varying from 1 to 4 months after the operation. In all of them the gall bladder liver and bile ducts had become infected and showed definite evidence of a pathological change In most of them the gall bladder was con tracted The walls of the gall bladder were thick ened the mucosa was congested and granular and sometimes ulcerated and microscopic sections showed evidence of subacute and chronic inflam The liver showed pathological changes varying in degree from slight points of central necrosis with scattered leucocytic and lymphocytic infiltration to more marked necrosis with diffuse and miliary subacute and chronic inflammation partic ularly around the ducts and vessels

instances enlarged hyperplastic lymph nodes were found in the region of the anastomosis. In do-s subjected to cholecy stoduodenostomy the gall blad der was filled with hair and contained intestinal round vorms which had worked their way up into the liver through the ramifications of the bihary ducts. These

gall bladders presented areas of superficial picera tion and subjects cholecustitis. The biliary passages and the liver also showed subacute inflammation

In the dogs living for a month or more after the operations with occlusion of the common duct, the common and hepatic ducts showed marked dilata tion Single and double lightion of the common duct u ually will not produce a permanent occlusion Doul le or triple lightion with severance of the common duct between the distal ligatures was found more sitisfactory

DIB se helieves that cholecysto-astrostomy is winning favor over cholecystectomy and cholecys He describes the technique in detail The indications for the operation are the following

I Common duct obstruction in patients who are poor surgical risks because of extreme illness complications or is ociated physical diseases

2 ( ises of residual hepatic duct stones in which secondary common duct obstruction is probable

3 Chronic or intermittent jaundice of obscure origin or jaundice secondary to inoperable diseases of the liver pancreas or duodenum eausing obstrue tion to the common duct

A I erforation of the gall bladder

As a substitute for external drainage conse quent to operations on the upper abdomen after the removal of sall stones 6 Castric ulcer When feasible in such cases the

operation should be performed at the site of the perforation of a pyloric or duodenal ulcer

7 lor the free drainage of bile in acute pan creatitis

8 As a routine measure in inflammatory con ditions of the bile ducts. In such cases the operation should supersede cholecystostomy because as the bile follows the path of least resistance cholecys tostomy is frequently followed by the loss of practically the entire output of the liver and a condition of acholia

o Cases of stricture of the hiliary ducts other than that due to stone In such cases cholecysto gastrostomy should supersede choledochotomy and plastic surgery because it is simpler and safer and gives equally good results

Cholecystogastrostomy is contra indicated by cancer and gall bladder neoplasms gan renous cholecystitis atrophy or contraction of the gall bladder and obstruction of the cystic duct other that produced by stone Full C Robitsiek M D

Sweet J L The Importance to Surgery of the Cystic Duct 1 1 J Sirg 9 7 111 74

The cystic duct is an extremely tortuous tube containing on its inner surface throughout its en tire length folds of mucous membrane arranged in a more or le's spiral fasl ion which divide the duct essentially into a series of small chambers. The openings from one chamber into the next are not opposite each other but are so placed that the channel of flow is rendered e en mo e tortuous than would he determined by the exte nal form alone. The number of these valves and the shape of the chambers formed by them are inconstant.

The purpose of this curious arrangement is not clear I than he a mixing device. It may be a device to impede the flow of hile from the gall hladder. Such an arrangement would offer resistance in direct relation to the viscosity of the fluid floing through it. According to the ork of Rous and McMaster hile flowing out of the gall hladder of he ever normally flos out of the gall hladder of hold become to the gall hladder of he would possess at least ten times the viscos two folle flowing into the gall hladde since it in the ast continue as concentrated it en he had become the flowing into the gall hladde since it in the sat ten time as concentrated it en he had become the flowing into the gall hladde since it in the sat ten time as concentrated it en he had been supported by the flowing into the gall hadder since it in the sat ten time as concentrated it is the head of the same and the same

Whatever the normal function of the small chambers along the cost c duct. So eet is convinced that their si e and shape leterm he the size and shape of the multiple facetted gall stones found n the gall bladder. In e ery gall his ide containing multipl facetted gall stones that he has obtaine l with ducts attache I the multiple facetted stones found in the gall bla ider were seen to fit into the pockets al gibe cv tc duct nlth neck and in fur dibulum of the gall bla ider and the shape of these pocket could be predicted from the form of the stones found in the gall I ladder by e t believes that these stones mu t ar se as ft ma e hich lo ige in the pocket an lassume the shape of the latter Chem ical proces es then t he place which change the colloidal ma sinto o calle i tones li e cystic duct becomes blocked The pressure h ch in the presence of a competent sphincter of Odd causes a dilatation of the entire extrahepatic duct system after chole evsteetomy forces the stone out of the cystic duct into the g ll bladde sice the blocking of the duct by the stone p oduce a funct; nal cholecy stectomy The process then rep at itself until e may find a large collection of stones of the same ze an I shape or of arving izes nd sh pes acco ding to the character of the pocket formed by the val es of He ter

The author maintains that the val ular urrange ment of the existe duct is e pon ble 1 ronceased tension in the gall bladder and cons quently for all gall bladder pain s c tens on lone 1 the case of this symptom To o creome it he recommend more complete removal of the cystic duct or sect on of the muscle of Oddu  $J \times J M \times M D$ 

Ivy A C I te nal Pancreat S cret on J 1 M 1 g 7 1 3

The external paner tie secret r, re ponse to a meal may be di ided into two phases with reference to the sites at which the stimuli are acting—the cephalic phase and the intestinal phase. The intestinal phase is the more important as the amount of secretion produced in this phase is greater than that proluced dunn the cephalic phase.

It is quite obvious that there are certain substances in the intestinal tract that excite pancreatic secretion. Recently, bile has been added to the already long list. Several theories have been advan elto explain the mode of action of these substances.

Experiments have shown that and such as tenth normal hydrochloric and increases the pancreat c secretion when it is applied to the intestinal mucosa. This may be due to the entrance into the blood of a hormone which stimulates the pancreas. Mellanby has shown that the introduction of bile into the duodenum causes pancrentic stimulation. The bile salts seem to be the exetting agents.

The po stability that a local nervous mechanism is operating in bile stimulation has not been ruled out by physiological experiments. It is evident that the pancreas is adequately stimulated by food even in the absence of hile and it at therefore bile is only an

adju ant and not an e sential alimentary stimulant. Olive oil introduced into the stomach has been found to stimulate pancreatic secretion attina a short time. In experiments in which the author in troduced olive oil into the stomache of dogs with a pancreatic fistula he found that there was u ually a pancreat e stimulation in from five to ten mi utes but this did not occur invariable. The same was true when olive oil was given through a tube to dogs

ith a pancreatic transflant.
It is quite likely that several factors operating together in the intestine cause the stimulation of

pancreatic secretion

Although the pancreatic secretion is the most important of all the digestion secretions less it kno n about it than about the gastire secretions Comparatively little re earch has been done on the effect of various d sease conditions on the secretory mechanism of the pancreas

The author has been extempting to find a non-The author has been extempting to find a noncerning the quality and quantity of pancreaties secretion and of minated by the pancreas instead of hy the stomach intestinal mucosa or liver Although he had tred thirty three dyes only tro have appeared in the secretion. These two wer methylene blue and methylene violet from 30 to 60 mgm of the dye wa dissol ed in 25 cm of physiological salt solution and given intravenously Methylene blue give a faint tinge to the secretion after into how a. Methylene violet gave a hetter reaction but proved somewhat towe and was elimmated in slight amounts in the gall bladder bile

From these observations it is evident that the pancreas is highly selective in the elimination of dies HAROLD M CAMP M.D.

Desplas B and Roux Berger J L Ruptu e of a Pan re the Hernatoccle Into the P ritoneal Ca ty (lifem t | p c e t q e mp d s l g d t e p t e l) B ll tmem S c n l d d/ 19 7 l 4 9

The pat ent whose case is rep rted a man 26 years of age 1 as operated upon May 27 19 5 for

ulcer of the duodenum a posterior transmesocolic gastic enterostomy being performed. The operation was followed by recovery. After a time however there developed in the left hypochondrium a prinful point which had no relation to the ingestion of food. On July to the pritient had a suddien attack of intense prin associated with vomiting diarrhoza and fever of from 38 5 to 39 3 degrees. C. An emergency operation performed on the sixth dry revealed a pancreatic hamitocele which had ruptured into the peritional cavity. The pritient recovered.

There was no fatty necrosis of the pancreas in this case. In the few cases without necrosis that have been reported by others the mortalny was much higher than in those with necrosis. In the authors case there was no disease of the bile tract in both the first operation which was performed by Roux Berger and the second one which was performed by Desplas the bile tract was found normal The authors regard it as questionable whether the gas tro enterostomy had anything to do with the pan They believe it possible that the pain and pancreatitis were the result of a disturbance of duodenal function but no other case of hamorrhagic pancreatitis after gastro enterostomy has been re ported and Desplas suggests that a disturbance of pancreatic function may be re ponsible for the fatal complications of gastro enterostomy attributed to vicious circle AUDREY G M RGYS M D

## MISCELLANEOUS

Begg R C The Urichus and Umbilical Fistulæ

The urachus is the modified superior extremity of the bladder and is derived from the ventral cloaca At birth it is at the level of the umbilicus and at tached by three fibrous bands one to each umbilical arters and one passing into the umbilical cord Following birth the bladder descends taking the urachus withit and dragging the fibrous cords along,

In a series of dissections of the bladder and urachus Begg found a communication between the two in 33 3 per cent. In the rest the urachus was patent but ended blindly just external to the mucous membrane of the bladder Uranzy fistula of the umbilicus is never due to a patent or persi tent urachus it is caused by urine extravasated from the bladder which travels along the transversalis fascia

The author analyzes fifty eight cases of congental umbilical urnary fistula which he collected from the hiterature and concludes that these cases prove that the urachus is developed from the ventral cloaca and that the urachus does not communicate with the umbilicus

The treatment of urinary fistula at the umbilicus is surgical I I DW VRD BISHKOW M D

Truesdale P E The Thoracoperationeal Operation for Hernia of the Diaphragm 1nn Strg 19 7 lxxxx 38

Cases of diaphragmatic herma have been reported in which it was impossible to close the diaphragmatic opening, by the peritoneal approach. Failures by the thoracic route have been fewer but with the undil procedures the mortality varies from 5 to 50 per cent on account of accompanying intestinal obstruction.

In more than so per cent of cases the colon is found above the diaphragm. Although the stomach and small intestines may priss through the opening with the transverse colon. The site of constriction is almost inviribly in the transverse colon. In cases with acute intestinal obstruction the mortality is higher than that of acute intestinal obstruction in general because closure of the aperture is necessary to make the operation complete and this requires extra time.

Reduction of the mortality from 50 to 5 per cent can be accomplished by a two stage operation consisting in (1) appendicostomy or excostomy to reheve the obstruction and (2) an operation for repair at the time of election. The preliminary operation promptly relieves obstruction and provides a safety valve in case of recurrence or distention during convalence from the repair.

In the use of the thoracoperatoneal route de scribed by the author a large window is made in the thoracic wall by a lapel incision Beginning at the lower edge of the sixth rib in the post axillary line the thoracic wall is divided in a downward direction with severance of the seventh and eighth ribs The incision then turns at a right angle and follows the eighth intercostal space forward until it reaches the cartilaginous portion where it turns upward and again crosses the eighth and seventh ribs The flap o formed which includes the pleura is completely turned upward on its base the diaphragm being thereby exposed from above. The under side may be approached when necessary by continuing the anterior vertical portion of the incision downward through the left rectus muscle. In some cases it may be advisable to split the diaphragm from its anterior edge to the hernial orifice. This permits visible access for the separation of adhesions and facilitates closure of the ring The peritoneal wall is then closed. The thoracic flap is turned back and closed tightly with interrupted sutures. The procedure is shown in several illustrations

The author reports a case in which a congenital herma with extensive adhesions above and below the diaphragm was successfully repaired by his method after two attacks of acute intestinal obstruction and three attempts at repair by the peritoneal route. Mayrice Mayrice Mayrice Mayrice Mayrice and the magnitude of the state of the

## GYNECOLOGY

### UTERUS

Sha W r Werthe ms Ilyste ectomy for Carci noma of the Cervix L c t 9 7 c n 538

Wettherm s by sterectomy has been performed in England for over 20 years Of 76 patients upon whom Shaw operated more than 5 years ago 16 (1 per cent) died as the result of the operation (2 6 per cent) died from ome other cause 25 (33 per cent) developed a recurrence 3 (3 8 per cent) cannot be traced and 30 (39 5 per cent) are now abve and well

Of 50 patients operated upon more than 7 years ago 11 died immediately after the operation 1 died from another cause 18 diveloped a recurrence 4 cannot be traced and 16 (32 per cent) are not after

and wer

Of the patients upon whom Shaw operated more than a year 1go 68 were treated vith rad um previous to the operation Of these 8 (41 per cent) are alive and vell vhereas of the 50 vho were n t treated with radium only 18 (3 per cent) are not alive and well

ADDR N Volt ER M D

## ADNEXAL AND PERIUTERINE CONDITIONS

Sha W O ulati n in the Human O ary h Mechanism and Anomalies J Ob t Gy o P t E p 9 7 409

The features of folicle ripening the mechani m of the approach of the ripening folicle to the surface of the ovary and the histological changes at the stigma immediately before and after ovulation are described and an a countily, or of the method of temporary and permanent closure of the stigma

It is a typical finding in hyperemic ovarie that rippining follicles it and out of timethy because of the gross congestion of the theca interna hyers of the follicle. Moreo or these foll cles can be seen easily with the naked eye and are re-ponsible for the majority of ham orthige occurring in such ou set. In all case, ho ever the hyperæmia is limited to the theca interna layer and as the granulose layer is not vascular zed there is no blood in the cavity.

Since the capillaries in the proliferating the a internal aper are oung and deleate it follows that if the primary ova ian hyperamia is e treme the will of the capillaries may be unable to resist the capillary pressure. An interst tail harmorthage then occurs it the theca inte na layer and the resulting con litton is a follicular humatoma.

The hemorrhage 1 bounded internally by the membrana limitans e terna of the follicle and does not invade either the granulo a layer or the cavity Externally 11 is surrounded by the dense st ornal 11 sucs of the cortex 11 no case has a large d fluse

stromal hæmatoma been seen the hæmatoma is alvavs localized around the follicle

There is obviously a close parallel between the etiology of this form of hemations and the etiology of corpus luteum hemations. In hoth ca es there is a primary ovarian hyperzimis and in both ca es this lead is to the ruptue of the valis of deletan early formed capilla ies. In the case of the follicular hemations the latter are the capilla ies of the theca interna layer of a ripening follicle whereas in the care of corpus luteum hematioms they are the capillaries of the granulo a futent layer when this layer is becomin vascularized.

E L Cor 11 MD

## MISCELLANEOUS

Joi nstone R W De elopmental Changes Duri g Adolescence B t M J 9 7 44 Paton J II P The fuffuence of the G neral Health on Yenst uation B t M J 947

Clov A E S Tle Peentlon of Menst unl Troubles B t M J 9 7 446

JOHNSTONE defines the period of adolescence in the female as extending from the time when the chain es of puberty, begin to manifest themselves to the time when the function of mensituation has become regularly established the secondary sex characters have become fully developed and the gift has practically reached her full physical stature

The changes occurring in the anatomy and physiology of the body durin these years are the most momentous of the ent re lifetime. The almo t ase ual child develops definitely and rap dly toward femininty Compl tedevelopment takes time Even the regular establishment of menstruation does not in itself indicate complete physiological ranatom cal maturity The bony pelvis probably does not reach its full size and width until the twenty second or twenty third year The young woman may then be sud to have reached the age of nub hty and can become a mother with safety Long before this however the external and internal or any of generation have acquired the r adult characters and functions the uterus tubes and vagina have de velop d to more mature proportions the ovaries have increased in size the regular ripening of the foll cles the discharge of ova and the development of corpora lutta have be un and maternty is po sible

With these changes there are alteration in the blood and lymph balance and in the b ochem it yof the body. The e tre organ in is concerned in the changes of puberty and adolescence. As the re ult of modern re earch the old belief that the de elop ment of th secondary se character's due wholly to the internal secretions of the ovaries must be modified. We now have reason to believe that all of the glands of internal secretion are involved in the process. An additional impetus toward femininty is given by fertilization of the ovariety of septematogon.

In conclusion Johnstone emphasizes that puberty and early adolescence are critical periods in which unhygienic methods of living may easily produce disastrous results affecting both body and mind

PATON states that the regimen practiced during the premenstrual phase is probably of greater importance in securing normal menstruction than that carried out during the stage of hamorrhage

He calls attention to the fact that since the in troduction of regular games into school curricula the health of girls has been greatly improved. By such exercise a high standard of physical and mental fitness is assured when the changes of puberty appear With the supervention of menstruction it becomes necessary to decide whether active games sbould be permitted during the period or not. It is undoubtedly true that active games may he con tinued by many girls during menstruction without harm and perhaps even with benefit Some gyne cologists advocate this practice in schools believ ing that it lowers the incidence of dysmenorrhoca Paton however doubts the wisdom of the recom mendation basing his opinion on the results in the St Andrews School for Girls In this institution games gymnastics Swedish drill and dancing are forbidden during the first 3 days of the menstru ation period but walking is continued except hy those who are definitely incapacitated. So satis factory are the results that Paton sees no reason to make any change The girls of this school are drawn from the well to do classes Excluding occasional dysmenorrhœa 904 per cent are free from regular pain. In regard to the regularity of menstruation Paton found that of 78 girls questioned at the age of 17 years only 43 experienced regular menstruction The type of irregularity was intermittent amenor rhœa

CLOW states that menstruation can be and therefore should be free from suffering of any kind. This was the case in 89.2 per cent of school girls studied and 9.3 per cent of students leaving a training college. Clow has found it very rare for symptoms to occur during the first few months of menstrual life and that if a girl is allowed to be guided by her own inclinations during the period she will nearly always exercise as usual. Her desire for activity is no more diminished than her desire for food or sleep.

Clow therefore permits menstruating girls to have their warm baths to cycle to play lockey and tennis and to do drilling and gymnastics as usual Emphasis is laid on the importance of such exercise on the first and second days of the period. As the result of such instruction the proportion of girls who suffer at the period has been reduced from 46 7 to 8 Per cent.

\*\*MIDERT VOLLIMER M.D.\*\*

Chattlion F Sterility of Uterine Origin Diagno sls and Treatment (La sterilité 1 origine uterine liagno tic et truitement) Gyn c t obst 19 7 xvi

Doug E Sterility of Tubil Origin Diagnosis and Treatment (La stérilit d'origine tubaire diagno tie et tra tement) Cyrée t b t 1927 voi i l'

CHYPILLON is inchined to believe that in sterility of terme origin cervical conditions such as stenosis anteflevion inflammation and secretory obstructions play the most important role. He discusses the various causes at length and states that in his opinion the gynecologist should never tell a womin that conception is impossible even if the findings of examination and tests point to that conclusion.

The treatment of sterility in the female should be preceded by examination of the male—gonorrhoxal tests and a study of the spermatozoa—and unless contra indicated by tubal insuffiction and hystero salongography

Any uterine infection may be the cause of steril ity Most commonly responsible are those localized in the cervix Sterility may be the result of a condition entirely of uterine origin or of a uterine condition associated with pathological processes in the tubes or ovaries.

Certain uterine malformations may be corrected surgically so that fecundation pregnancy and de

livery may be possible but this is rare. Uterine hypoplasia is amenable to treatment except when the uterus is of the fetal type are less than 4 or 5 cm in length. The treatment of hypoplasia gives better results if it is begun at an early age. It should be directed toward the development of the organ by direct action or by indirect action through the ovaries. The general health must be taken into consideration. Among the best methods are slow and reperted dilutations uterine massing halmeotherapy opotherapy and electrotherapy especially diathermy. The functional stimulation of the ovaries by the recent given as is not to be recommended at the present time.

Cervical stenosis is not such an obstacle to fecundation as has been believed. It is frequently associated with other conditions such as uterine deviation cervicitis and malposition of the cervic

Of all uterine deviations aniteflexion is most often the cause of sternlity. Retrodeviation plays a less important role than associated adnexal lesions. Cervical stenosis may be treated by slow and repeated dilatation with tents. This gives better results than dilatation with metallic bougies. Intrauterine pessaries may be of value if they are left in place for a short time and during this time the patient remains under medical care. Good results have been obtained also from stomatoplasty.

For the correction of retrodeviation pessaries may be tried. The author is not a strong adherent of this procedure but is aware that it is frequently followed by pregnancy. He believes that low abdominal hysteropecy and shortening of the round ligaments are the methods of choice.

Fibromyomata may or may not interfere with fecun lation Tlose of the submucous type are mo t ant to do so In ca e of suhmucous and inter titial fibromyomata the alne al and endo metrial changes may play a more important part in the ausation of stell than the neoplasm Submucou myomata an i t brou pol p must h sy tematically stirp tel by the aginal route Sub crou and inter titi I tum r should he left al ne unle this go to a conde able ze The influen e f mall tum r i negligible A con rva ti c interv ntic i b tom i I myomectomy which ne mits examinate r of the all e a While good re sult has been I triped the the roentgen ray by e pert roentgen treat ient i not to he recom m nde i for ge er i usc

The funct to its noftluterane muco a result, from chang us has enhomet att me tropythe lyopha to my b respirable for terlity and quire jecult e imen byten cuteting, neces my to e tall as the Lagno is as the usual sign—metro rhaga ao menorrhagia—has o cirted alo with plyp and cancer. The non illuminator endometri usual by he to ow a manamator endometri.

d turbs c an Ir que treatment of the ova l
I plr t ry curett k may top the uterne
hæmorrhage but fien the cure is tran tory.
Op the app part culirly the u e of corpu luteum
i of great v lue i egulatin menstrution
Treatmet of the pleen the the coentgen ray.

Treatme t of the pleen the the oentgen ray has be nemptoned with sue a la eems to he de word of ding r. In sime cie arran irradiation has be nucce full but this method hould be used only as a latire it is in may cause permanent dinary to the out.

Cer it anlend mitthe conduo of considerable imputance nithe culatin of tendit require energiue treatment. To be est cacious the tre timent mit aim to my fete dest uct nof the cer ic i muco a. Filho cault reamputation of the cervicy muco and the cault reamputation of the cervicy my conductor in the little riks of ar so district in the conductor and the conductor is not conductor.

Of the one of the corpus the cause of ster lity less often than of rep ate lah rt on A history of gon rhee le open piel e er frequently suge et the cut even of ter lity elections under the sum ut the head of the lity elections of the condition of the corpus the condition of the

DOUAL de c ibes the var o metho l of a cer tan ig the permeab lity of the fallop n tunes not the different operation that has be en proposed for

the treatment of sterility of tubal origin. He drays the following conclusions

r Before surgical treatment is attempted for stemlity believed to be of tubal ori in an exam nition of the permatic flu d should be made in order to rule out azoospermia hich is re ponsible f r shout is per cent of cases of stemlity.

2 According to the findings of tubal insufflat on cases of sterility may be divil d into 2 groupstho e with on n tube constituting about a per cent and tho e ith clo ed tube constituting 4 per cent The insufflation test 1 not always decaye There are cases in which it mu t be repeated several times During the interval in such case med cal treatment (massage dathermy) should be all mim tered There are all o cases in which the tub's are fou d to be closed at the initial test but open at a sub equent to t In such case the patient may be come pregnant as the result of the therapeutic act n of the test Pregnancy ha occurred n from 8 to 1 per cent of all cases of insufflation and in f om 28 to 32 per cent of the e in hich the tubes vere male p rmeable by the test

3 By intra uterine injections of lipiodol the fail g of the in ufflation test m y be verified and the site of the clo ure and the exact site for surgical

intervention may be determ ned

4 Up to the present t me m t operatu no on the flopan tube have been done for adjungt only e ceptionally have surgeon intervened solely on account of tubal sternity. In some cases the sur end taken advantage of a other operative indication (pa ful salpingo opino it in vioversion of titue us sappendicius) to correct obliterating tubal le 10 Today becau e of the knowledge that can be gained regretting the exact it of such les ons it is rational to prop e n operation to be pe for med solely to obtain permeability of the tube

5 The operation inch gives the best result:
signment; is (the because of 4 dale ions and operation) is (the because of 4 dale ions and operation to that is performed in at frequently 1 salps gostoms. Up to the present time favorable results have been obtained in only about 15 per cent of case but the are graded by becoming more frequent. Tubo ovart n implantation is still be as studied. It may ge cr. favo the results as it establishes tubal permeability with practically an intact tube. In exten into 1 into 6 fallop an tubes site ovarin implantation may be done with some bope of successions.

6 Ca es of pre n nev follor ng th operation described have not been numerous b t they are necessing as the re ult f the accurate d unosis a d tle proper choice of operation perm tited by the ne d nostice te ts in I as the result of impro em nti

the technique S L to 1 P 1 M D

## OBSTETRICS

## PREGNANCY AND ITS COMPLICATIONS

Siegel I \ Liver Function in Pregnancy J Obst . G n c 1927 TIV 300

In 174 cases of pregnancy 15 injections of brom sulphalein were given. There were no reactions and no thrombosis. In 3 cases in which the die was in sected into the surrounding tissues or leaked out of the vein local fibrosis was produced

The author draws the following conclusions

3 Bromsulphalein is a valuable agent for the testing of hier function. It is free from the dangers

of phenoltetrachlorphthalem

The blood pressure is perhaps not a true in dicator of the toxic state. Hypertension without impairment of liver function may mean a good promosis Retention of bromsulphalein with a nor mal blood pressure perhaps indicates a mild type of involvement which requires watching but will prob ably take care of itself

3 In cases of pre celampsia bromsulphalein is valuable in indicating the degree of toxicity and the

reaction to treatment 4 It is valuable in differentiating nephriti from

pre eclamptic and eclamptic townia

- 5 It is useful in differentiating neurotic from toxic comiting and as a guide to the results of treatment and the need for surgical interference
- 6 In case of eclampsia it is perhaps useful in F L CORNELL M D in lieating the prognosis

Pierson R N Fibromyomata and Pregnancy a Study of 250 Cases 11 J Obst & Gy tec 1027

In 30 836 consecutive pregnancies there were 101 clinically important fibromyomata an incidence of o o per cent Lifteen per cent were in the pelvis Spontaneous abortion or premature labor occurred 111 4 1 per cent of the cases I he incidence of im portant obstetrical abnormalities and complications is markedly increased by fibromyomata operative interference was necessary because of the fibromyomata in 4 (21 4 per cent) of the 101 cases and in 13 per cent of the 30 cases in which the fibromyomata were situated in the pelvis

The gross maternal mortality was 3 2 per cent and the mortality due to obstetrical cruses 2 08 per cent nt The gross fetal mortality was 35 6 per The mortality in cases in which the fibromy cent om ita were probably responsible was o 7 per cent I rematurity wa the hief cause of fetal death. In I terson a opinion the literature does not sufficiently emphasize the danger of fibromyomata to the mother and child

During the pregnancy a special effort should be made to prevent abortion and premature labor Interference is indicated only by severe pain bleed ing or pressure which does not yield to treatment At term a test of labor is often desirable

If obstruction from the tumor persists or some other variety of dystocia is marked during labor crearean section should be done with myomectomy or hysterectomy according to the indications. The third stage of labor requires care to prevent hemorrhage from a poorly contracting uterus

In the puerperium fibromyomata may undergo degeneration and necrosis They may slough into the uterine cavity and become infected signs and symptoms point to the tumor itself as being primarily affected radical surgery is indicated but when the tumor is simply included in a general morbi i process such as acute uterine infection the indications for radical interference are less definite

In the discussion of this report Rubin said that he prefers con ervative treatment even in the pres

ence of slight bleeding

I out a stated that a large number of pregnant women with fibroids will take care of themselves during labor and that he lets the e women go to term and gives them a test of labor

Divis reported two cases of pedunculated fi broids which were operated upon during pregnancy In one the pedicle was strangulated Both patients

recovered and were delivered at term

Kosnak took exception to the attitude toward myomectomy during pregnancy and said that fibroids should be regarded more seriously before and after labor than during labor

I RANK stated that in many cases the most favor able time for myomectomy is about the fourth

HEALY stated that it is better to do the maomec tomy in the presence of the pregnancy and take the risk of a possible subsequent spontaneous abortion than to interrupt the pregnancy with the idea of doing a myomectomy later and hoping that the patient would then conceive and go to term

L I COPNELL M D

Hofbauer J A Study of an Undescribed Type of Premature Separation of the Normally Im planted Placenta 1nt J Ob t & Gyn c 92

The specimen described is of interest on account of the very small area of placental separation which caused pronounced clinical symptoms. The con-cealed hamorrhage was sufficiently extensive to peel the membranes from the entire uterine wall except at the placental site | 1 priori it would seem improbable that a concealed hemorrhage of 600 c cm could arise from the minute area of separation which was detected in the fundal region

hæmorrhage rem med concealed because of the frm a lherence of the membranes to the lo er uterine segment. For several bours preceding the onset of the serious condition only a small amount of blood found ts av into the vagina

Hysterectomy as lone a it as belie ed to be the procedure high ould best assure harmostasis since the presence of multiple myomata and extenive hamorrhagic infiltrati n pointed to a seriously damage I con lition of the uterine muscle with the probability of e ous p stps tum bleed ng if the uterus was not em I LC LL MD

W Ison J St G Tiree Cases of Rupture of the Ute us at the S te of a P e ous Caesarean Sectl n L 1 97 598

In one of the author's three cases of rupture of the uterus at the ite of a casa e n section scar the rupture occu dlef e the n et of labor In each ca e the placent a locate I under the site of the scar W TRF LIYMD

## LABOR AND ITS COMPLICATIONS

Hevitt J To at D nd B d D Tie Relatie Me t of tl Instrumental and Med cal Meth od of Inducing Labo J Obi - 6

The introluct n of the intra uterine bouge is a more certain meth | 1 of in lucing labor than Watson s medical te hn que Re insertion of bougies is more uccessful than rejetit on of medical in luction pa ticulari meffecti e in in Wats ns methol ducing prematu e labor Its ina lequae is the mo e appa ent the more prematu e the case The bougie ho ey is equally effect e throughout the various stages of p egnancy A prel m a v unsucce sful attempt h W t on s method d es not ne ease the f begunt a trumental aduction The ni pr nounce i l'antage f n trimental o er me I cal n lucti n i certa t of action

The larger ass cate l with me I cal in luct on are less comm nth th ea oc tein th nstrumental in luction. Mire we the dang rs. f instrumental n luction (notably sep ) ca a se eve funduct on fails who a th e follo ing med cal i luct on ean occu onl if ll uper es (ra e septic in fection n t uncommon after the u e of the boug e The time int r 1 neith the s le or the main factor in the product n f p The auth is sugg st that the 1 is dane in leaving the bougs s n the ut u for mor than 4 h urs th n in re in erting the Will the time inter all i fluenced in some a c l th accu cy and u gency n t n riabh l pen lent of the ind at on t upon these facto

The number of buge atrolucel bas no e lationship to the u ce s f th meth d The co te ds to hasten cident administr tion f pitu t the act on of the b gr al atv ith the uterus Watson's method my be mploy d th uces to re induce uter ne co tract n in ca es farrested first stage. The probable failure of Watson method is a safeguard against accidental in luction of premature labor by miscalculation of dates as in inductions of convenience and cases of supposed postmaturity Honeyman's invest gations su gest

that pituitrin is present in the blood in increased

amount during normal labo

The author recommend that in non urgent cases Watson's method be tried and repeated if necessary that if the case is or becomes urgent instrume tal induction be employed and that i henever bougies are used pituitrin be injected intramuscularly at regular interval E L CO NELL M D

Gibbe d G F An In st gati n nto t! Results of Breech Labor and of Prophylactic External Cephale Ve In Du ng Pregnancy with Note on the Techn que of Ext n l Ve JObi Go a BiEp 97

In 22 per cent of 21 cases of del very - 35 those of p imipara and 186 those of multipara-the child was bor dead and of the children sho ere born alive 13 per cent died within the first ten days Of the uncomplicated cases 20 were those of primiparae ith a fetal mortal ty of 28 per cent and a neon tal leath rate of 3 5 per cent and rof were those of multiparæ ith a fetal mortality of 14 per cent and a neonatal death rate of 1 per cent

These figures sugge t that this series of cases as an e traord a ilv unfortunate one ith appalling results or that the general attitude towar! the dangers of breech labor 1 unduly opt mistic and the fetal mortal ty usually given is f r too low

The remedy mu the either in improvement of the technique of breech delivery or the el mi ation of th's unfa orable presentat on so far as po s ble

E ternal ve ion d ing p eguancy eldom fall in its object and fee f om serious rik to either the mother or the child It should be att mpted as a rout ne so n after the thirty second veck of preg nance and if it fals a fu ther attempt should be made soon after the thirty fourth week. If nec essary an anæsthetic should be give bef re the de ci on is made that vers on i impossible

IL COR L MD

## MISCELLANEOUS

W tson B P TieR pons blity f the Ob tet l cal Teacter n Rel tion to Mat rn ! No t ! ty nd Morb d ty A J Ob I L Gy

The maternal m t lity from all ca ses n all countries r nges from 4 to 7 per 1 000 In the last o years it has sho n littl cha ge Wh le there has been some reducti n in the last 50 years the de crea e h s not been o rapid a that noted in the gen ral de th rate

Watson believes that today there is a greater need than e er to warn again t m ddl some midwifery since because of incr ased hospital facilities the attenda ce of t aine l nurses a d the ea e

which a set up for operation can be made there is more temptation to interfere

With regard to the training of the medical student in obstetrics he states that clinical study should be preceded by a course of theoretical instruction largely in the form of lectures demonstrations and the reading of a standard textbook. In the planning of the course of clinical instruction emphasis should be placed on diagnosis Diagnosis can be learned only in the prenatal clinic and prenatal wards. Also in the prenatal clinic the student should be taught the importance of the various complications of pregnancy especially the early and late toxemins the anæmias the heart affections and the focal infections. When abnormalities are detected he should hear the advice given regarding them

With such teaching and practice in the prenatal department the student is in a position to study and He should have been drilled in conduct labor aseptic technique by his surgical training but according to the author's experience he is often very deficient in this The technique should be as simple

as efficiency will permit

A not inconsiderable part of the total maternal mortality is due to antepartum hæmorrhage student must be impressed with the importance of this complication and the necessity for consultation and hospital care as soon as it becomes evident

When sepsis supervenes the student should be taught to visualize the processes going on in the body and to realize the danger of interference with

the interior of the uterus

When hospital accommodation is obtainable it is easier for the practitioner to live up to his ideals in the conduct of labor than when he must care for the case in the patient's home. In the hospital his patient is watched by competent internes or nurses while be proceeds with the rest of his day's work and he is called only when necessary Watson suggests that somewhat similar advantages might be obtained in obstetrical practice outside the hos pital by active co operation between a trained obstetrical nurse and the doctor

In the discussion of this report Norris said that in recent years better results have been obtained as the result of more frequent hospital care of obstet rical cases. The trouble with the system of team work between a specially trained nurse and the doctor in remote districts is that the work would fall largely on the associated trained obstetrical Norris would prefer the slogan nurse

obstetrical hospitals

BLAND said that the medical student must be impressed with the well I nown truths that success ful obstetrical practice requires zealous prenatal supervision and an a eptic watchful waiting plan during labor

NICHOLSON stated that much of the time spent by the medical student on the benches or assisting at gynecological and obstetrical operations is wasted and that if it were devoted to the study of prenatal cases and the use of the midpelvic and low forceps both the student and his future patients would be benefited E L CORNELL M D

## GENITO-URINARY SURGERY

## ADRENAL KIDNEY AND URETER

Legeu F v nd P l ol Tle M tly of ile Re nd telvis Studied in tle Fresily Excise J K dney (l m t t d b tét d u ler f l hem t éth t é) J l d t l

The authors stulel the multis f the renal pel is in a kidne fin his cased because of tuber ul is his broughnous erner of state. They detended the state of the tended the left pelsy the colores find a lat watched the escape is the fluid from the urete. In 3 is stances contaction occused spontaneous his his the other is to pulce distribution on the uter pinching or too hing the vall of the pelsy picking grallul r sullen filling of the pelsy or stimulation but ledetic current.

The results were the s me hale er the mole of excitato. For a shot time 10 effects around a first the p 1 s c nt acted con mass rapidly and e ergetically. The subsequent expans n as much slo er. During the resting per of which foll vet and vas very long re e ed excitations had no

effect

The c nt act ht of the pelvi was stongest early n the e periment and eake ed progressively utl the final death of the kidney. Excition in the region of the urreter proceed a tipe into moveme the hispore ell from the site of excision to a dithe pelvia lita elithe pelvis as fras the insert of eth civices. The contact on of the pelviwas not flovel by urier legicultion. Excitation in the region of the pelvir free exists.

Exectation in the regin of the pell in the cathers caused contract n in the pell which retracted in the interest length in occur elat the beginning of the dutole hich followed

E citation the bulbar reg n iz ne of p elo ureteral function) pro luce i e lts that e e ap pare the h cordat In 1 cae 2 a s of con taction start d fr m the point of e ctat n one running up arl t ard the pelvs and the ther down yard al g the ur te i e tun t me elap ed between the irt and econd ejacul t n althou h the contract on of the pelvs continued Tie e
phenome a were obe ed in 6 kd e that vere
di tend d w th col re l e um 1 tot liv diss rent nhenome o as n in the c e of the non d s In r ca e high the excetory tende I pelv apparatus ma ht h be n c iderel perfectly normal excitation fille u eter an i pel 1 1 o oked contracti ns ith t ejacul t ns vh rea e cit tion of the bulbar gnp okelent action fol It apper that the bulbar lowed by ejaculati region has a phy iol gi al i 1 idu l ty hich i of importance in the p thog ne of pel ic reten tions

The results obtained in these exam nations correspon led in general to those obtained by preformed shortly before nephrectom. In particular, they confirmed the presence of a sphiniter function at the juncture of the pelvis and uriter which controls executation of the pelvis contents and assures its intermittent rhythm. Excitation in the zone provokes sometimes ejaculation sometime retention from pasm. It is evident that the excretion of urine is not a hydrulic phenomenon but is depen lent upon a delicate neuromuscular appiratus which in its function resembles similar appratus which in its function resembles similar appratus belonging to other hollo organs.

In the discussion of this report CHEVASSU cled a lather in which be hid produced contractions over a period of 50 minutes by pre sure on the cap sule. It seemed to him that the contractions were p. v. ked by the increase in the pressure of the instrumental fluid. FLORE CE CAPPENTE

Perr n W S A N m lly Placed Right k d cy P sses ng T o Pel e and T o U ters Oping Separ t ly into tie Bladder tie Center P tof tie kidn y Bet een the Pel ea Be g Occupied by a Gr i it Tumor P Ry S c If d Lot d a 7 8 7

The specimen described was removed from a manstavers of age ho gave a history of recurrent pain less hem turia for eight months with the occasional passage of clots which caused difficulty in micturation

Cy toscopy re enled to uneteral office on the right side of the bladder Blood was passing from the

upper one

Indugora mine as peared from the left ureter and from the right lover u eter in len minutes. No e as ob el coming from the right upper or fee in a p no loft elve minute.

The blo I urea va 0058 per cent The urine vas ste le and contained nothing abnormal e cept

n fe ed cells

The pyclogram rescale I to pel es to the kidney
on the rill side the lover one of which was some

hat la ger than the upper one
HARRY \ TO LR MD

HARRY 1 TO L R VID

Perrin W S An Ectop Kldnes itl a Triple
U eter Remo d from a M n Aged 4t k a s
P R V II d L i 97 86

The patent whose cease ported gave a hory of a attacks of pain in the left! I mbar re ion rail ting to the pein and associated at the humatural differences of unation. The first attack of curred 4 months the second attack 2 month and the thill ttack, 4 days before his admission to the hopital.

On cystoscopic examination blood was seen passing from the left ureteral orifice Pyclography showed moderate by dronephrosis of a kidocy lying in the hollow of the sacrum and a normal right kidney in the usual position. Bimanuaf examination revealed a tender swelling in the pelvis

The urine had a specific gravity of x oro and showed one eighth volume of albumin. Blood cultures reverled streptococci but no tubercle braili. The renal efficiency test showed the blood urea to

e o o

The hidney was Iying in the hollow of the sacrum It had 3 ureters uniting to form a smill sie which opened into the bladder by a single orifice. The sic contuned a large cilculus which obstructed the upper 2 ureters entering it.

HARRY A FOWLLE M D

Hellstrom J Contribution to the Knowledge of the Etiology of Hydronephrosis 1cta chirung Scand 1927 l 11 167

The author reports 2 cases of hydronephrosis in which the pelvic dilatation was probably due to the oblique course of the upper end of the ureter through the pelvic wall probably congenital. He discusses also a case in which spastic conditions at the uteronely curvature were apparently responsible.

Martin Lava and Pasteau Small Punful II3 dronephrosis Eneration of the kidney and Kephropex Lato Results (let te hydrod, phose douloureus ener atton du rein et néphro peur résultats éloi n s) J durol vité 1 hir 19 7 vul 77

In the case reported the kidney was slightly en larged and painful! It was not movable but was located a little lower than normal. Enervation by Papin s method and fixation after partial decapsu lation were performed and the pain ceased

Two years and nine months later the patient was still free from rend symptoms. The function of the lidney was found to be approximately the same as

before the operation

Marion and Oraisen who discussed the case are of the opinion that the fivition was mainly responsible for the cessation of the pain

TLORINGE CARPENTER

Durget M. R. Recurrent Pyelonephritis in a Patient Operated upon for Renal Ptosis—Bifid Ureter (Lydon(phrite & r petition chez une malade opérée pour ptose r nale ur(tere bifide) J d i of med 1-chir 1927 viiv 74

In the case of a 40 year old woman who had under gone fivation of the right kidney five years previously pyeloscopy showed normal functioning of both kidneys but revealed also a bifid urefer on the right side. The two branches of the urefer joined a few centimeters above their entrance into the bladder. Apparently although this was not directly observable they were fused at their origin or both came from the same pelvis. This case shows that it is possible for a ptotic kidney already in a state of advance distention to regain its normal function as the result of fixation FLORENCE CARRENTER

Takahashi A The Health of a Patient 20 Years After the Removal of a Tuberculous Kidney (Rapport sur I tat de santé d'une maiade à qui fut pratuquée in tans auparavant l'ablation d'un rein tuberculeur) J d'urol méd et chur 19 7 vun 347

A woman now 48 years of age had her right kidney removed for tuberculosis in 1904 when she was 26 years old In 1919 13 years after the operation she had kidney symptoms but they were found to be due to pregnancy and at term she gave birth to a healthy child. She bore 4 children before the operation and 6 afterward and is now in normal health.

\*\*LUBER 6 MORGUN WID

Hunt V C Papillary Epithelioma of the Renal Pelvis J t rol 227 xxiii 5

Papillary epithelioma of the renal pelvis is the least malignant of all malignant lesions of the kid ney. It is relatively uncommon the parenchyma of the kidney heing the usual site of tumors. In a series of 3.18 malignant tumors removed by ne phrectomy at the Mayo Clinic there were 3 permany epitheliomath of the renal pelvis. Fight were sessile and 15 were papillary.

The sessile and papillary types differ in their microscopic characteristics degree of miliginancy and manner of growth and extension. On the hasis of clinical results and the grade of maliginancy according to Broder's classification the sessile epithelioma is highly malignant as compared with the papillary epithelioma. The sessile epithelioma progres es and extends by invasion into the perirenal tissues the renal vein etc. and metastasizes remotely while the papillary type progresses by extension along the mucous membrane of the ealy ces ureter and hladder.

Hematura is the most common sign I alphble enlargement of the kidney is usually dependent upon the presence of hydronephrosis. The discovery on existoscopic examination of a papillary tumor of the bladder at or near the ureteral orifice should immediately give the clue to the diagnosis. The prelogram usually establishes the diagnosis of renal tumor and sometimes that of papillary epithelioma

Unless the bladder is involved the surgical procedures in the past have usually been limited to nephrectomy often with partial and occasionally with complete ureterectomy. However because of the high incidence of metastasis to the portion of the bladder immediately surrounding or adjacent to the ureteral orifice it appears that segmental resection of the portion of the bladder including the intrimural portion of the ureter and the adjacent area must be done simultaneously with nephroureterectomy to insure the best prognosis. The technique of this is stage operation is described Quinby W C Pl to Surgery of the Renal Pei s J i M i 9 7 lt 1 84

40

In a large number of case of renal stasts with the producti n of hydronephrosi lue to obstruction at or nea the renal pelvis Quinby has attempted to save th I her by conser at e surgery try ng to produce drainage by a me plantic procedure on the nreter and p l is

I rom the stuly of 13 cases h ha come to the c nelu n that the only predure hich gves perman at relef the e a which the ureter is transplanted into the m t depe lent part of the pelvis. Hi attempt to enl g the no mal uretero pel c in ctu e by tran ver e suture of the l ng tulnal cs la e not met with su cess In none of his ca es has simple d on of the obstructing artery cure I the condition althou h the artery was cor si lere I the cau e of the faulty drag age

CLEERH S MD

And é P Bir ral U ete otomy for C leuius in a Young Cl Id (L t t m b | tt | p | ) | h | | (t) | J | d | | d | | | |

Andre repo ts the cale of a child on v bom a right u ete otom had been pe formed n 10 6 for a stone the siz of a bean in the pel ic port on of the ureter The child recover d from the operation but the urnay symptoms p s tel nd n > 7 about ele n months later the \ w sho ed a stone in almo t a symm tri al location on the left side. At operat the left 1 eter as fou d markedly d lated and a stone mea uring by 12 mm 1 as removed The st ne c nsi tid of a nucleus of calc um o alate su rou led by calcium pho phate. The child made

a normil reco eiv The author con luded that both stones had been pres nt at the time of the fr t operation since on re e aminat on of the f st roc tgeno ram a shadow of all ght dens ty vas not diat the site of the second MICHAELL M ON MD Stone

## BLADDER URETHRA AND PENIS

Pil t Tie L ti ogeni Acr on of Stapl ylococci by th P priln f Cyrl of Ammonlum Magnesium 11 ospl re in the U ne (D ltithe d tphl q pape ptt d l d r dphplt m mg J d l ed l l

Lillet has fou I that f v rule t staphylococci are alled to fittered a epti acil ur e a d the unine is then kept n incub t at a temperature of 37 leg ees C it bcc mes alkal e and numerous crystals of ammon um magnes um pho phate are p contate! C lon bac ll on the oth r h nd pre vent or g catly retard the prec p tate n of pl sphates and keep the use ed fo al gtme In n rmal fltered urine that va kept aseptic no crystal f any sort were found in an obser ation period of several months. It therefore appears ery probable that bacteria pl v a pa t in the product on of crystalline sediments in urine The crystal may represent the products of microb c digestion The chinical and laboratory research that led to and confirmed these observations are described and

the formation of the crystal is discussed at len th In examination of the urine of a patient in whom

a calculus of the urinary tract is suspected am momogen c hacteria with lithogenic power-the most common of which is the staphylococcusshould be looked for If they are found fluoroscopy may be indicated

These studies explain how a mas ive but enhanced infection of otherwise normal utine may be the ong n of phosphatic calculi in childhood and adolescence They explain also phosphatic gravel deposits of phosphates around a uric acid or oxalic acid nucleus and the rapid recurrence of certain pho phatic calcult FLORENCE CARPENTER

Pap n E and M chon E Iliac Ureterostomy of tle Remaining Lidney in Tuberculosis f the Bladder Afte Neph ectomy (Del rtr tome 1 qed rnr tntd 1 tb 1 f l pes éph tme) Blet & So td 1027 1 1 063

Pap n s technique for iliac ureterostomy is de scribed in detail The most original features are the very exten we fiberation of the ureter the low sec tion near the bladder and the omission of fivation of the ureteral aperture to the skn A regular elongated curve take the place of the sharp angle which is produced when the ureter i made to open in the lumbar region

Th teen cases are reported in which the operation was performed for the rel ef of intense pain of severe cyst ts hich persisted after nephrectomy for tuberculosis of the kidney The patient first sub jected to this one ation was operated upon 6 years ago and a now leading an active life. In all of the cases n hch the operation wa perfo med long enough ago to warrant a conclusion as to the end result it i as succes ful and in the cases recently operated upon t appears to have been successful

The use of an apparatus to collect the escapin urine is much mo e con enient after this procedure than after fumbar ephrostomy A sho t catheter in the ureter is unnecessa y Recently Papin has modified h technique by making a rectilinear skin ioc sion to ohta n a skin flap which he wraps a ound the exteriorized portion of the ureter. In the av he forms a tube similar to that made by Lambret for an hac anus The tube allows the use of a more simple f r 1 of apparatus hut in the one case in which it has been tried it ga e ise to complications of FLORE CE CAR E TE cicatrizat on

T k hast i A The Farly D gno i of Ped cled Villous Canc of the Bi dd r (C tnb t a d t préc ce d c r péd lé il d i e ) J d l méd i c 1 9 7 348

It is difficult to make a d agnosi between benign and malign at tumor of the bladder particularly

in cases of the pedicled villous forms which are frequently benign In the case of a man 60 year of age the first eystoscopic examination revealed a tumor which appeared to be a typical pedieled napilloma but the second cystoscopic examination made a few days later preliminary to electrocoagu lation showed a slight bullous ordema of the mucous membrane around the base of the pediele such as is often seen in cancer of the bladder The author therefore decided to remove the tumor After opening the bladder he was unable to see or feel any change in the mucous membrane and was inclined to doubt his evstoscopic diagnosis but microscopic examination howed cancerous infiltration both in the pedicle of the tumor and in the bladder mucous membrane

Takahashi therefore advises careful inspection on cystoscopic examination of bladder tumors to de termine whether there is any bullous ordems around the base of the pedicle. AUDREA G. MORGAN, M.D.

Morson A C The Treatment of Vesical Car cinoma by Radium Irradiation Erit J R d of 927 xx 1 309

Morson discusses only inoperable cases of car cinoma of the bladder. When partial cystectomy is done by an expert it gives excellent results but when the lesion is too extensive for partial exstectomy a decision must be made as to wbether a complete evstectomy shall be performed or irradiation employed. Radium irradiation does not cure bladder carcinoma but is followed by shrinkage of the tumor and temporary improvement in the general bealth. It will also control hamorrhage.

Four different methods of applying radium to bladder tumors are (1) surface application (2) internal application (3) combined surface and internal application and (4) burying of the radium

in the growth

Surface applications are open to the objection that they cause the most intense irradiation upon the skin and the least intense irradiation on the tumor considerable normal tissue intervening

Internal application may be accomplished through a suprapulse cystotom or through the urethra At least a 4 hour exposure is required to de troy malignant cells. Through the urethra radium may be placed in the bladder by means of an operating cystoscope. Considerable normal tissue is heavily irradiated by either of the internal methods.

By combined application is meant the insertion of radium into the rectum and its application to the skin over the suprapubic region. This method

is far from atisfactors

The burving of radium in the tumor in the form of tinn glass tubes or radium seeds offers many possibilities but has several objections. The author deplores the haphazard method of applying radium tubes to a tumor in the bridder and the administration of sublethal doses. He believes that the congm of radium available is inadequate for the treatment of a growth invading one half of the

bladder He buttes to mgm tubes '' in or less apart about the periphery of the lesson and leaves them in place for 24 hours. A marked reaction follows but complete disappearance of the tumor has not been realized. In general, the improvement 1 only temporary but in the author's opin on the treatment is well worth while.

1 JAMES LARKIN M D

Chauvin E Double Urethra Particularly the Posterior Varleties (1 propos des uretres doubles en partic lier de leur ariet 5 posterieure) J durol riéd tel 10 vivi 80

Le Fort made an excellent classification of anomalies of the urethra in 1896 but he studied chiefly duplications of the anterior urethra and forms unknown to him have been found with the progress of surgery. Chausin therefore suggests a revision of the classification and divides such conditions into 4 groups (1) complete double urethra (2) justa urethral culs de sac (3) bifurcations of the urethra and (4) diverticula of the urethra with a distinct canal

He has been able to find only 6 ca es of complete double urethra in the literature Sometime it is difficult to distinguish the normal from the accessory canal but the former usually has a normal sphincter while the latter is a simple fistula from which urne drains constantly Sometimes the accessory canals are too small to be critheterized but histological examination always shows them to be lined with stratified enthelium ble the normal urethra

The culs de sae are blind at one end and open on the skin or into the bladder at the other Culs de sac opening into the bladder are very rare the author has fourd only cases in the fitterature. Those opening on the skin are much more common they may run beside the normal urethra or above or below it. The dorsal ones are the most common LeFort collected 13 cases. Lebrun added 8 and the author has found 1 others in the literature and has seen in his own practice. He describes the finding in his case in detail with a pontgenogram.

Posterior bifurcations of the urethra are difficult to demonstrate and so far as Chauvan is aware have never been diagnosed clinically. Le l'ort did not know anything about them and only it case has been reported in the literature. In a case seen by the author the anomaly was discovered in a pro-tate that had been removed surgically there was a urethra running through each of the literal lobes. Antenor bifurcations are more common and may be lateral superior or inferior.

If a diverticulum of the urethra is to be classified as a double urethra it must not be simply a saccular diditation but must present a di tinct canal. It may be blind at one end and open into the urethra at the other or it may open into the urethra in the middle and be blind at both ends. The nuthor reports a case in which hi tological examination of both culs de sac showed epithelium like that of the normal urethra.

Nicholson B B Ureti raf D e ticula J U i

Urethral dive ticula are a c They sometimes cau e marked listu bane s and in se eral reported cases we e re ponsible for death The author re ports two cases and supplements hi a ticle with a ery complete bib lography o the subject He

tites that many eported cases of congenital diverticula of the u ethra lack proof of their con

genital origin

Diretticula ma occur at any po t along the ureth a Embry logial evilence upports the theory th t co gentral li erticula a e of entode mail origin. V a rule they are called to the physical passattent in before the pat t reaches adult the

The diagno 1 su uall nt 1 ficult. Frequently the most evid nt sug s the ppearance f a tumor duing ui at n and it ub cq cnt collapse ithe pontineou li or und ternal pre sure if the 1 a must though the kin foul urine my be expreed from the u a cll as from the uthat lacaes n hich telegraphic sample palpate 1 and occur on ally cell the under the distribution of the under the under the distribution of the under the distribution of the under the un

The teatment mut aim at the terilization and if possible the suig cal eradic too of the calit. The smaller picket in vive cleared of if et on by massing rigation in tillat no and uith all tath in Epecially hin the lat stagnation furne the larger difficult with the caling the completely different completely different caling the stagnation of the stagnat

Janae T MD

### GENITAL ORGANS

G A G Pr tt tomy in the Tc ument of Urina y Ret ntion in the Cou of A ute G n heel Pointit (I pttm mm tt tm td tt d d pttm d d pttm g g g q ) J d l d l l

The author eports the cree fa man yeas fage who had had go had urethritifor about three months and u intry retent in for the day Careful catleterization wa done for a yeck with no relief

A perineal po tatotom, as finally perfo med The two lobes ere incset and draine I and a e tention cathete w inserted F ur days after the operation the patient in tid ponta ously the temperature dropp d and there vi c implet rel et of the symptom.

Three othe smilar ca l e been treatel i this manner by (a o tl g ol ults

The treatment d cibeli recomme I lalof r cases without ab ces In the author p on it will often prevent the d elopment of ch c urethr t and cho c pr st t ti

MICHAELL M ON MD

Wildbol II Tie Indication and Election f Prostatectomy Proc Ry S Md Lod

The general indications for operation for beingn by pertrophy of the prostate v linch are recomized by all surgeons are

1 Permanent retention of a considerable quan tity ( 50 to 200 c cm ) of urine in the bladder

2 F equent attacks of complete retention 3 Long standing infection of the bladder

4 Severe repeated hæmorrhage from the hyper

troph ed prostate

Vany surgeons are extending the indications for postatectoms operating them there is frequency

p o tatectomy operatin hen the e 1 frequency an I only a slight degree of retention. In the author's of inion prostatectomy 1 not ad isable as a prophylactic procedure. It 1 indicated only when the patient is in danger from the dicase.

In the early days the morthly follong operation as high because of urrunal from impairment of renal fun tin It vaslater generally reconnect that renal function should be tested b fore operation. Ho e er there is still a considerable difference of opin in as to high tests of renal function are bet and a to when this function is sufficient to permit protatectomy without undue risk.

In a series of 135 operatively treated cases Will bolz test d the enal funct o before the opera to nbv (r) testing the power of the kidneys to dilute and concent ate the ur e (the ater test) (2) the phenoisulphonephthalein test and (3) estimation of

th blood urea

These tests were repeated several times in each tree to determine the imp o ement if any resulting from the preliminary treatment. One patient died of u am after the peat a. In the case of another who died of pneumonia and acute b liveral prebate phrits there were no signs of uram a for 3 weeks but a few days b fore death the blood urea to e to 2 m m. In n ne of the other cases vas the operation followed by urea?

The vate it stiss considered by many urolog it to be the m important tet of read funct o Suter of Basle refuse to oper te unle a the unleas the unleast of t

Some su ge ns attribute mo e imp rtance to the difference bet ee the highest and lo est fire es for the specifigr t as determined by the test a nation of from 15 t o degree ten c side el neces n f saf ty Of the patie ts ho ec ses are re te d erel syt of a much lo er co

centr ton e ral sho ed a difference of only 4 or 5 degree nd a difference of only 3 degrees A poor re p n e to the at r test 1 not an abso lute contra ind cat on tooperation it is as g only of

impairment of renal function. The author has never seen a poor result from the phenolsulphone phthalein test when the water test was good. In only

cases in which the water test was satisfactory was

A good response to the phenolsulphonephthalem test indicates good renal function but a poor re spon e is not a definite contra indication to operation Some urologists insist upon a minimal climination of from 42 to 55 per cent during the first hour hut Wildbolz believes this is too high In the majority of his cases more than 30 per cent was eliminated in the first hour but in 13 the elimination was between 20 and 30 per cent and in 10 it n is le s than 10 per cent Most of these cases showed a remarkably good elimination during the second hour Wildbolz con cludes that an elimination of less than 10 per cent during the first hour is a contra indication to pros tatectomy but when there is an elimination of from 10 to 20 per cent operation is permissible provided the elimination is as high or higher during the second hour

The estimation of the blood urea should be done to supplement the other tests When the water and phenoisulphonephthalem tests are satisfactory operation is permissible but when they are un satisfactory they leave us uncertain The estimation of the blood urer shows when operation is definitely contra indicated but leaves us uncertain as to when it is permissible. A high blood urea determination is a contra indication to prostatectomy but a normal amount of urea in the blood is no proof of satis factory kidney function Several observers have scen patients with a normal blood urea value develop symptoms of uremia after prostatectomy Wildholz has seen patients with a blood urea value of from 30 to 40 mgm eliminating phenolsulphone phthalein very poorly and with such a small power of urine concentration that prostatectomy He believes that the appeared too dangerous estimation of the blood urea will indicate only a serious deficiency of renal function and does so later than the water and phenolsulphonephthalein tests On the other hand an abnormally high blood urea value is a certain indication that renal function is for the time too poor to permit operation Uremia will surely follow operation when the blood urea is 100 mgm and will probably follow it when the blood urea is 80 mgm When the blood urea is between 50 and 80 mgm operation is permissible only when the other tests are favorable These observations indicate the necessity of employing more than one test of renal function

I enal function may be rapidly improved by regular drainage of the bladder. As shown by Kormitzer Hinman and Morrison deficiency of renal function is due not so much to atrophy of the renal paren thym Irom buck pressure as to disturbances in the circulation of the kidneys. Most patients respond promptly to pre operative treatment. In a few cases however no such response occurs and opera

tion is not permissible

When the response to renal function tests is not so poor as to contra indicate operation but improvement under draining is not satisfactory operation may be performed if the general condition is good if the condition of the heart and lungs is not satisfactory operation is not advisable. In deciding whether or not to operate it is important to ascertain whether a perincil operation may not be performed instead of a supripulbe operation.

Wildbolz believes that the perincal operation places less strain on the heart and lungs. He has found that the suprapubic operation is usually followed by an increase in the blood urea lasting several days while the perincal prostatectomy is followed by only a slight or no increase. In more than so per cent of cases in which a suprapubic operation was performed there was an increase in the blood urea on the fourth or fifth day. In the majority it amounted to from 60 to .o mgm but in r case it was more than 100 mgm. In only 18 per cent of the cases treated by the perineal operation was there an increase and in these it was trifling. In 28 per cent of the cases of perincal operation, there was a decrease on the fourth or fifth day after the operation This difference is explained by the fact that in perincal operations there is much less disturbance of the general vascular circulation less bleeding and less necrosis of the tissues the wound does not hinder respiration or expectoration and as the wound is well drained there is only a slight amount of absorption to increase the blood urea

In the author's technique for perineal prosta tectomy approach to the prostate is gained by the usual incision and blunt dissection and the prostate is pressed downward into the wound by a metal catheter in the urethra The fascia of Denonvilliers is then incised transversely just above the apex of the gland and pushed backward to expose the pos terior surface of the capsule. The latter is incised by a midline vertical incision beginning I cm above the apex and through this incision both lobes of the prostate are enucleated as far as possible The prostatic urethra is divided transversely just at the lower end of the adenomatous mass the upper end being left connected with the neck of the bladder Young s retractor is then introduced and the upper end of the urethra is divided close to the neck of the bladder together with any adhesions between the adenomatous mass and its capsule

Four sutures are placed through the neck of the hludder and the stump of the urethra at the aper of the gland. The e are tied over an indwelling silk catheter which is left in place for from 12 to 14 days. The sutures restore the normal anatomical conditions so far as possible. A drainage tube is placed in the prostatic capsule. No packing is used. The superficial wound is closed with a few sutures.

Haling usually occurs by primary intention. The drainage tube is removed after 3 or 4 days. After the removal of the catheter the patient voids normally. In 105 cases treated by suprapulsic prostatectomy the mortality was 12 per cent. whereas in 305.

treated by permeal prostatectomy it was 6 5 per

D sad antages of the permeal operation are wounding of the re turn in the rik of incontinence Hypry A F will M D

The auth r ree h je ience 1 93 cases of prostate etv v th p may mortality f 54 per ce t—9 ca e of be ign h pert phy f the prostate ith a m trality f 40 per c nt and 1r cases of cancer t the jro tite with mortality of 9 per

Io obta g d c ults f om pro tatectom care ful p e per ti tre tment is nece ary. Of chief imp tine i permin at friminge of the 11 ider A a ul thi is Iti ied by me no of a etention cath ter lle ettect fran ge hult be en efulls controll d by t to t ce ling to the Strauss meth d and detenin tins of the non protein n trog n of the bl od The latter a e eces ary for a correct stimation of the fu t n 1 c pacity of the a rul a go d re ult from operat on can be expected 1 1 the non protein mitrogen of the blolde not e cel 40 mgm. On account of the filly common variablity of the enal func ti n in patie ts itl fr t t c conditions repeated determinatio i ulibe made before the ope tion and when the p gno : is uncerta sl uli be kept nan ex lu velv ca bohydrate det fo the frt fe ly fter tle pe ation

The result c mpro ed vi o's he the operat on pert m in tyge When the non pr tem nitrogen ontent f the blo d 1 pers stentil light and there s e nar inf et a prehm a y cysto t m should le done to obtain more effective drainage of the bl ll r and greater mp o ement in the re al functi th a re ult from the use of the retention either

The ocu f p toperat e epid dymitis can be greatly e in cliv cha g ng the catheter eve y oth r lav lur g the t eatment before a d after

In ca es f ben gn h pertr phy of the pro tate pro tat ct my u u lly g ves a last ng result In c nor t the p t to in theh the dagn sis may be ve v diff ult n on me cope e am n tion the prono as rg l defin te rc es fter or statectomy by the rlna v tra s esicul oute very u favor ble Recurre ce a d meta tas sometimes le clop with n 6 months after the operation but n some cales se e al sea s may elapse before su h c mplications aris the patie t being quite fee fom symptoms in the int r al The occurr nce f postoperat e multiple metastases in the bone ep lly n the ert bra means a e Such metastase often grow to ) slowly how or i appe to be i orably in fluenced by rejeated t catme ts v th the roe tgen rass

Ibral Im A B The Relatio of Funi ulit to

Hydrocele in Egypt L icet 927 ccx 72

Cellulati of the spermatic cord has log been recognized as a fair ly common affection in the East II has been described in Egypt and Ceslon. Ca tell that studied the condition and gave it the name en lemic funculation. At kasr el lun, ho pital du ing the year 1077 to 79 4 1705 patients ith the condition were admitted and about tive this

du mg the year 1027 to 10 4 105 patients ith the condition were admitted and about tice the number ere treated as out pitients. These figure represent only a small percentage of the total in cidence of the condition because they include only cases of the most see ere type.

There are 3 major varieties—the gangrenous the

suppurative and the non suppurative
The non suppurative type which is much more
common than the suppurative appears in a mild and

a severe form It has long been described as throm

The gan renous type which 1 the rare t causes death u ually in 2 or 3 jays 1th marked symptoms of septicemin Death occur in spite of early interference

The cute suppu at a form offer a somewhat better progno is if promptly teated but often cau es death \text{\text{Mosc Softmation e pecually in the knee joint is a comm n complication A diplo streptococcus as i I ted in every case

Hydrocele s an almost constant sequel of the miller cases and in the author's opin on almo t all of the ery numerous cases of hydrocele observed

in Egypt a e due to the conditi n

There 1 a geat similarity bet een fun cultisand the ttacks of lymphangity occurring in troe delephantia 1. The underlying cause is probably a filana and the exciting cause a streptococcu.

JOSEP S EISENSTA DE M D

Stricke P and fran k A Multiple Fib omata of the Tunic V ginal (F1 m m lt pl d ! t q al) J d l tdl t l 97

Stricker and T unck report a ca e of fibromata of the tunica vaginal's in a 4 year old man. The f st tunior as noticed by the patient it wyears p et ously. There was no other abnorm lity in the remutal region.

At operation h e small tumors round and very lard ere found adherent to the Leer land princt lavers. Umost all of the tunn a agnali s remo ed the tumors. The cother growths the size of the had of a pinie edic ered in the 1 ce al se ous membrane and destroved ith the

thermocaute y

Histological examination showed the tumors to be fibromatous formations very much sclerosed

The authors have been unable to find a similar case in the literature

FLORENCE CARPENTER

Wesson M B Backache Due to Seminal Vesl culitis and Prostntltls California & Il est Med 1927 VVII 346

Weson says that in a large percentage of cases of low backache there is an infection of the prostate and seminal vesicles and as soon as free draininge is established the haghache crases

He emphasizes the fact that although the primary infection in such cases in the prostate it is the secondarily infected seminal resides which are responsible for the metastatic infection.

Disease of the prostate of seminal vesicles causes backache through referred pains or by metastric infection with resultant local fibrositis or arthritis in the lumbosacral spine. As this causes the patient to assume an utitude which increases the strain on the back muscles the static element is often directly responsible for the pum in the muscles and ligaments.

In hackache due to disease of the seminal vesicles the pain is made worse by pressure on the structures at fault but movements of the hack are not limited until the development of arthritis Particularly important in the lower hack is the presence or absence of tenderness on pressure in the area of pain

In cases of long standing infections which are sealed in several treatments are necessary to hreak down the barriers and release the pus and bacteria Four cases are reported Louis Goss MD

Walker & M. The Treatment of Genetal Tuber culosls in the Wale La c t 1927 ccmi 367

Walker emphasizes that genital tuberculosis is to be regarded as a local manifestation of a general condition requiring the adoption of all general and local measures known to be of value in rusing resistance against infection by the tubercle bacillus

In its surgical treatment epididy mectomy is the operation most generally of value Vesiculactomy although hased on a correct understanding of the patholos, of the disease is rarely necessary as re moval of the lesions in the testicles is usually followed by marked regression of those in the prostate and vesicles. This regression is materially assisted fepididymectomy is supplemented by chimatic and dietetic treatment behotberapy. Yay irradiation and the use of tuberculin. If no improvement in the central lesions occurs vesiculactomy and the removal of grossly infected tissue in the prostate should be done as a secondary measure.

In advanced cases of tuberculous vesiculitis and prostatitis and those with fistulous tracts: the radical operation should be performed as a primity measure It may be carried out also in a few cases of less advanced disease when the patient's mode of life and environment are so unfivorable that he is severely bandicapped in the fight against tuberculosis.

C TRAVERS STEPITA M D

### MISCELLANEOUS

Burbellon I The Latent Gonococcus and Spermoculture (Gonocoque latent et spermoculture) J d'urol méd ci chir 1927 xxiv 36

In Barbellion's opinion spermoculture is an in dispensable complement to the older methods of deciding the question of cure of gonorrhæa. It is not however an absolute enterion and the difference in the results obtained by different investigators (Janet Dibaines a positive culture in 94 per cent) indicate the difficulties experienced in its application.

If rom 30 to 60 per cent of his cultures whereas in his litest research with a different medium he obtained a positive result in only 4 per cent. He believes that the organisms seen in the previous in vestigation were not gonococci. He does not accept the theory that the gonococci found in the sperm of a high percentage of clinically cured cases are gonococci of a special attenuated saprophytic type.

Examination of the fresh sperm between side and cover glass gives information as to the presence number and vitality of spermatozoa and the presence of leucocytes and bacteria. Turther information is obtained from an examination of the sperm spread thinly fixed and stained with forms stain The presence of pus in the seminal fluid is a sign of prime importance even in the absence of gons occil It is very important to search for the goodcocci in the fresh sperm as well as to make cultures.

Limbkin E C and Dimond L The Employment of Polar Body Deceloping Strains of the Gonococcus in the Treatment of Gonococcul Infection Brt M J 1971 30

The objectives in the treatment of gonorrhoa are the following

r To raise the immunity of the muco a through which the organism enters the hody

To increase the resistance of the particular glands and organs susceptible to attack by the genococcus

3 To raise the antibacterial properties of the blood and tissue fluids in order to reduce the risk of systemic spread of the infection

4 To bring the patient under certain precise bio chemical and collodochemical conditions which have been found to give optimum results as regards de fense against the invading organism and to place the infecting organism under conditions in which it is least able to withstand the defense mechanism of the body

5 To provide a means of determining whether any local foer of the disease remain or whether the patient is completely freed from the infecting or graism—in short to obtain a test of cure

These objectives have been sought by (1) drain age of the whole urethra by mild irrigating fluid

( ) maintenance of the urine reaction at a pH of 7 2 to 7 4 (3) intra urethral instillation of a prod uct of gonococcus metabolism the e otorin (4) the parente al adm na trat on of the exotoren and (5) the instillation into the urethra of another gone coccus product called endotoxin The methods have not vet been perfected

I olar hodies hi h ha e been obtained in 33 per ce t of all g nococcal strains have been found to de clop also in a certain percentage of strains of every organism invest gated up to the present time p oyided the necessary elements for their formation are present in the culture medium and the physical cond t one required for the r development are main tained C TRAVER STEPIT M D

#### Botsford M E Rigi ett E and Johnson C M Anæ th sia n Urological Surge y C If 611 1 11 d Q

The choice of anæsthetic i i urological surgery is a matter of concern to the nte mst su geon and and thet at and has been the subject of much d cu sion and inve tigat on in the past fe The inhibitory effect of ether and chlorofo m on kidney function is well e table he l Cu hav at tribute it to reduction of the blo d pre u e and im pairment of aeration of the blood

In el cted u ological cases local anæsthe ia ideal but for the large majority in hich general and thesia is nece ary nitrous o ide be t meets the requirements of u logical urgers. Unl ke ether nd cbl roform nitrou ox de ha o effect up n the blo d p e ure ther than to cau e a rise du ng econdary saturation hen the oxygen pre su e s

reduced and as it 1 not eliminated by the kid eye it has come to be regarded in most urological clinics as the n'esthetic of choice when a general an s thetic 1 and cated

Becau e of the supposed retardation of uring v ecretion produced by mo phine and atropine thel t ter are g nerally omitted in cystoscopic e aminations and ureteral catheterizations under nitrous on le anasthe ia but from e periments on dogs Haines and Mill ken concluded that in the usual hypoder mic dos they do not affect the kidney function un favo ahls and e en prevent the inh bitio produced by ether The investigation reported in this a ticle vas undertiken to determ ne v hether nitrous o ide anasthe in inhibits kidney function and if so whether morphine and atropine pre ent this in h lition as they do when ether is used

(3) toscopic examinations of adults are usually done under some form of local ana the ia but in these procedures also the p eliminary adm ni tration of mo phine would be of great value for its preoperati e psychic effect and for postoperative relief of pa n

In a trous o ide angesthe a morphine i frequently the facto which determines the possibility of obtain; mu cular rela at on Th author th elore conclude that if as Ifaines and Milliken su gest it d es not interfere ith el minati n u ological oper ati ns such as per neal and suprapub c p osta tectomies nepli ectomie and operations on the bla lder as ell a cysto copic e aminations a d ureteral cathete t tion may be done under nitrou oxide and the a without the dd tion of ether

lust ss MD

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

# CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Sycamore L K and Holmes G W Endothelial Myeloma (Ewing's Tumor) 1 n J R ntg 1 10 7 Null 2 3

The course clinical incidence prognosis morphol ogy and response to irridiation of Ewing s timor are sufficiently characteristic to make endothelial myeloma a clinical and pathological entity. The reality of its recorded occurrence is probably due to failure of diagnosis. According to available statistics it constitutes approximately to per cent of bone tumors. It metastrisizes readily to other bones this probably accounting for the fact that it is som times considered a condition of multiple primary tumors.

The clinical pieture is characterized by localized intermittent pain and swelling, and local heat without reduces. Sometimes there is slight tenderates and occasionally pulsation is noted. There may be slight fever and a slight feucocytosis. The roentigeno graphic picture is that of a pur ly destructive non osteogenic process in the bone. The tumor usually procless over one held of the shaft extending from

station process in the bone. The tumor usually modes over one half of the shaft extending from the center toward the cade. There may be persosted reaction leading to new bone formation. This usually occurs parallel with the shaft but occasion ally in radiating spicules. The tumor may invade the periosteum and surrounding soft parts.

It must be differentiated from osteo\_enic sarcoma metastatic mali, nancy multiple mycloma and osteomyclitis. The differential points of these lessons are discussed at some length. In doubtful cases nourse may be had to biopsy or to the therspeutic test of irradiation. As biopsy increases the danger of metastasis and the response to irradiation is rapid

and specific the latter is better

Irradation is the treatment of choice. Its action
is so marked that failure of a tumor to react favor
ably is sufficient evidence that the growth does not
belong in the category of Ewing's tumor. The treat
ment must be continued over a long period as the
growth tend to recur. No definite statement can be
made as yet with regard to the curative value of
rudation since only a few case as have been treated by
reflections only a few cases have been treated to
this method alone and these were treated too recent
by to flooring the conclusions as to the permanence of the
cure.

The use of surgery and Colev s serum is di cussed briefly

The prognosis of the condition is unfavorable al though considerably better than that of osteo enic sarcoma or multiple myelitis

A case seen by the author is reported in detail

Rowlands M J Rheumatold Arthritis Is It a
Deficiency Disease? P v K y Soc M d Lond

In investigations with regard to the effect of dict on rheumatoid arthritis. Rowlands found that when pigs with stiffne s and swelling of the joints were fed on a full stample diet they became entirely normal

Early clinical observations had led him to the conclusion that rheumatiod rithritis is of trophic origin. This was suggested by the typical areas of hyperasthe in and the marked wasting of specific mu cle such as the vastus internus the nerve of which supplies the knee joint and the deltoid in which the circumflex nerve is involved. Over a long period of observation he noted that in a very high percentage of the case sultures of the urine viciled bacillus coll. Of the last 100 cases studied bacillus coll were found in the urine in So. Cultures of the fluid obtained by puncture of the joints were sterile fluid obtained by puncture of the joints were sterile.

The author studied allo the effects of a deficient det on rats. When a dict deficient in Vitamine B was given all of the animals appeared sick within 3 weeks and in the fourth week a number of them died. In controlled nicropises the most marked and constant findings indicated absence of the peristitute wave general malnutrition and distention of the execum. Colon bealth could not be cultured from rats fed on the deficient diet for only 4 weeks but were found in the urine of those fed this diet for 9 weeks.

None of these animal died from acute septicemia or showed the least signs of being ill other than symptoms attributable to the deficiency in the diet These and other findings suggest that a deficiency

of Vitamine B in the dict of animals lowers the vitality as indicated by the subnormal temperature and decreases the resistance to infection. The rits dicd of acute tovernin. In the authors opinion the absence of peristables was due to paresis of the nerve supply followed by atrophy of the muscle with consequent distention and the absorption of town. The track of infection is by way of the lymphatics.

In d. cus ing the similarity of the effect of a deficience of vitamine B in the diet to a nerve disease the author calls attention to the fact that in animals fed on such a diet a constant symptom is paralysis. In rheumatoid within a joint commonly involved is the knee. Before the pain becomes localized in the knee the patient usually complains of a tingling or numbness around the joint. Wasting of the vastus internus sets in and there are areas of marked by peræ thesia above the knee joint and on the outer part of the leg. The vastus internus supplies the knee joint or at least its sy novial membrane. There is no wisting of the rectus.

In theumatoid arthritis of the shoulder joint the patient often complished found of the deltoid be fore there are any marked hone changes and sensitive area in the skin are found in the region supplied by the cutaneous branch of the circumfer nerve. The circumfer gives off a large branch to the joint as a trophic ne.

In rheumatoid a th iti of the land there is marked wasting of the intero seous muscles and of the thenar em nence hich are upp hed by the deep port on of the ulmar nerve. There is never any wa ting of the hypothenar eminence. If the wasting were due to disuse all of the muscles would probably

be equally involed

The author draws the f ll ing conclusions

r The absence of any organi m in the blood the joints and the ti sues indi ates strongly that the disease is of tow o light. The h h percentage of cases (90 per cent) in which there is a bacillaria indicates stro gly that the co-dition is due to bac tenal products.

2 Rheumatoid arthrit's may be accompanied by distention of the stomach and constitution

3 The smilarity in the anatomical changes in almost all case is remarkable

4 Injury 1 a p edi pos ng cause determining which joint will be involved

5 The disease is one of ci dization and i in creasing. The increase in its neidence is consistent with the cha ges in our her

In the author's e perience a diet ith a concentrated ontent of vitamine B has been effective in relieving theu natic Ia's and ste ilizing the urine

relieving they natic Ia s and ste ilizing the urine
Mas age and elect cal thermal and drug t cat
ments have proved of little value. Foci of nicetion
should be removed a far as poss ble

GER (H EL MD

Ca ey E J The Anatomy Physiology and Anomalies of the Spine Rad leving 7 9

The spine has to primary curve—the thorrect and the secral—for the a commo lation of the viscers. There are all of two second by curves—the cervical and the lumbar—which compen att for it e upright po ture. These curves re der the spine system times strong er than it wild be if it were straight. They go it elastic to and maintain the veight of the viscera, it his the ne of the center of gravity. The curve is a so gradual that it previous the possibility of copression of the cold and adds greatly to the beauty of the body outline.

The settchra are interlocked and o erlap each other by the r pinous and articular processes of that the co d is well protected and there i little danger of h location. The weight bearing part of the vertebre is espe ially built to su tain its load. The stron lamellie run vertically and are bound together by weaker homozontal limellie. Both sets of fiber are cu ed with their conve itv toward the center of the bone. Elasticity is afforded by the cancellous compos tion. The cancellous tissue is covered by a thin hayer of compact bone. The control of the cont

is attached to the vertebral bodies the least movable parts of the ming

Roentgenograms of the spine should be of decided clinical importan e Aormal standards must be set up for the different antonucial gas Wh n this; done the roentgenolo st will be able to report an increase or decrease of surf ce outline or density of bone in the various vertebrar

The roentgen e unination is a valual le re bod for recention of the various abnormalities in spinal development that result from delyed gro there a perverted anatomical condition

The spine may show absence of one or more vertebre an additional vertebra retarded or accelerated growth of parts or complete subsinous of parts of vertebra. The most common anomalies of the type are spina infida and fusion of vertebra to contiguous bones. Charles H Beauce MD

## SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

P ati M The Importance of the Ju tura Tendinum in Lesions of it e Extensor Tendom of the Finges (5 ll mpo ta dllegut t d e llel 10 de tondn et dle dt) I i il d d 10 7 507

A curpenter 38 years of age sustained a cut acro a the back of his hand. The extensor tendon of the middle finger was cut at the juncture of them ddile and lover third of the middle metacarrial ad as not sutured. The author was consulted 3 months later. When the patient held his hand 1 alm down

ard with the fingers ext nded the middle figs was flexed a little belo the others. When he made a forced contraction of the ha is a d then opened it the middle finger extent if a limost completely all though a little more slo ly than the others. The physicam of his insurance company said he simalingering hecause all of the fingers could be st

tende l'after forced flexion

Studies of the a atomy of the land led Prati to conclude that the patient was not mal agenn. In an examination of abat the anatom t call the ju cture tend num that 1 the transverse fibers connecting the different branches of the e tensor communis digitorum he found that these fiber part cularly those between the ring and middle fingers may function for one of the tendon that they connect when the latter is injured. Therefore ec tion of one of those tendons in the middle or upper third of the metacarpal need not cause I mital on of e te sion of all of the fingers together but only of e tension of the injured in er all e The latter may remain permanently in a position of slight flexion though complete e tens on is possible by hypercontraction of the exten or ma cle The conditions are symptomatic of complete sect on of the tendon with a car ous function of the juncture tendinum When the le 10n 1 d stal to the insertion of the tendon anastomo es extension of the fin er AUDR G MOR impo sible

Ryerson E W Luminectomy J 1m M 1ss

In Potts disease laminectomy is indicated after conservative treatment by complete recumbency in bed on a Bradford frame has been given for about 6 months

In fracture dislocation of the spine with marked cord symptoms in which every hour of delay of treatment means increased harm to the cord an early decompression may give a chance for cure which otherwise would be lost. In such cases laminectomy is a reasonably safe procedure and should be, performed as a routine massure.

Not only recent but also old cases of incomplete lesions of the cord due to miury may be treatly

benefited by lamineetomy

For eases of complete transverse destruction of the cord the author proposes to transplant several interco tal nerves downward into nerves below the le ion. No attempt has been made to perform this operation as yet but Pverson solicits opinions regarding the plan. A J GOTILIEN M.D.

Nove Josserand G. and Pouzet F. Lato Results of Atypical Farsectomies in Diffuso Tuberculo sls of the Posterior Tarsus in Children (Ré ultats loi n's de tar ectom'es atypiques dans l tube culo e d'fuse du tarse posteneur chez l'en fant) Lyouchir 19 7 vul 19

In extensive tuberculosis of the posterior tarsus surgical treatment is necessary. The authors have treated 40 cases. The typical posterior tarsectomy was done in only 4. In the others they removed the astropius and then curetted the calcaneum and the other bone of the tarsus so thoroughly that often they left only as hill of cortex and this only in areas that seemed normal. In most of the cases a cure resulted.

In 3 cases it was found necessary to remove the calcaneum secondarily and in to perform a second curettage on that bone. In addition to removal of the astragalu and curettage of the calcaneum which they did in all 45 cases in which the atypical operation was done they curetted the epiphysis of the tibia in 7 curetted or removed the seaphoid in 11 and leuretted or removed the cuboid in o

On the whole the atypical posterior tarsectomy give very good functional results. Since as much as possible of the bones of the tarsus should be preserved curetting has the advantage over subperiosteal tarsectomy as it permits a considerable degree of regeneration and better preserves the ulcaneocuboid joint. Retrodisplacement of the tibia with reference to the culcaneum must be prevented and special care must be taken to preserve

the seaphoid because of its importance as a support of the tibia. If the scaphoid is diseased curet tage is preferable to its removal. If removal of the seaphoid is unavoidable, it may be best to remove the cuboid allo even when the latter is normal so that the tibia will rest on the anterior part of the foot

The foot must be put up in a position to assure this support. This is best done by pulling it downward and backward. Audres G. Morgan, M.D.

Freiberg A. H. Physical Therapy and Its Relation to Orthopedic Surgery J. 1, 11 1ss 1927 1882 182

I reiberg calls attention to the present haphazard and inefficient use of physical therapy and suggests how it may be corrected

The advent of heat baths electrotherapeutic apparatus and various forms of light instruments has tended to divert attention from the older forms of physical therapy and to a more alarming degree has lessened expertice s in the use of massage gym masties and general physiological training

There is a constant tendency to substitute expert ness for a confusion of apparatus. Freiberg insists that physical therapy and apparatotherapy are not synonymous. Vost of the apparatus now employed is good and of value under the proper conditions but it is rare to find that those using them or prescribing their use have more than a superficial knowledge of the relationship of the physical therapeutic agent to be employed an it the physiological and pathological changes to be treated

Some of the most important methods included in the term physiotherapy cannot be supplanted by the use of any of the apparatus now known

Courses of instruction given in mercantile establishments to increase the sale of certain types of apparatus are not acceptable substitutes for training in medical schools or hospitals either for the physician who is to direct the treatment or for those who are to act under his direction

None of the so called drugless cults is to be regarded as identical with physical therapy or as a substitute for it

It is important that the principles of physical therapy in its modern sense be a part of the education of the student of medicine. The medical student should have at least a minimal amount of truining in its application.

A more numerous personnel thoroughly trained in the practical application of physical therapy in its various branches should be at the service of the medical profession

In discussing a personnel to perform the practical part of this work. Freiberg suggests that the nurse is best qualified to select physical therapy as a field for postgraduate specialization

GEORGE C HENSEL M D

## FRACTURES AND DISLOCATIONS

Kleinschmidt A New Method of Trenting Pseud arthroses (E n neuer Behandlung weg der I seu lo arthro e) 51 Tag d deutsel Ges f Clir Berl n 1927

Besides general causes there are also local causes for the development of pseudarthroses. To correct the latter in 3 cases, the author exposed the pseudar

thro is removed any possible local harances to cure freshened the ound and then performed an osteotomy upon the same bone at a listanc. In this manyer he obtained a wide co tact surface for the fracture call in 1 of the 3 cases the fracture produced by the osteot my as not entrely headed though the peudarthra as corrected in the other cases both areas ere healed completely

In the liscu si n f llo ing this report FGGERS (Rostock) lealt th the operative treatment of subcapital fractu e f the neck of the femur He hdreexamnet, cacs 6 of hch had been operated upon in 9 3 and 1 in 9 4 In only 1 case va there a p cudarthro is 1 the others the operation was performed early. In 3 the neck of the femur as plac d in the acetabulum and a fairly good re ult as obtained. One patient was able to walk for half an hour but a till unable to put any great eight on the 1 o The other patients 70-year old yome are able to attend to all of their h usehold duties go up and lown stairs and dress and undre them el e In all of these cases the eco la v atrophy of the r entgen gram sh femoral neck nl in the formation of a new painless and functioning joint b tween the remain of the nuck in I the upp riedge of the acetabulum In 4 cases the haft was placed in the acetabulum In r case it slipped out again and the result as therefo e poor Tope ent this the 3 other case the trochanter as chi eled off and affixed to th trongly ab lucte I femur belo its or ginal site and in a cases the acetabulum wa broalened by the of a raige according to the method of Koenig In the e c cs the shaft remai el in the acetabulum a 1 the hip vas capable of bearing eight Mot lity as good in cases and excellent in 1 Because of thes r sults the method employed today consists only in the insertion of the shaft

with possibly the addition of transplantation of the t ochanter and the formation of a ridge Eggers also de cabed briefly the Albee operation

h ch give goo l abduction a firm insert on of the haft a neg ti e Tren lelenburg and o per cent of

normal m bility

According to the e periode at the Ro took Cline middle agelipatient heal well in phaser cat. They are therefore treat diconstrained. To older pate to Eggers advocates early operation since by this means the period of treatment may be materially reduced.

DLUTSLILLENDER (Hambu g) reported a succe s jul operat on hich he performed years ag accord g to the method of Koenig on an old pseudarthro 1 m 2 o vear old giff. He extripated the head of the femur left one po toon in the acetabulum and re ected and inse ted the greater trochanter.

Design (Vienna) d cus ed the good results that may be obtained with Wh tman s plaster cat This cast mut be vora for 6 months E e tually apparatus may be empl velalso in the von E sel br gC live c erv ca e is treated conservit ely at

fr t Operations are the exception (marke i pseu lar throse )

Anscituffic (Shell) stated that he all op efe to put off operating until conservative procedures he failed. The treatment of old persons is still unsettled. An operatic method that it were nell adapted to elderly persons is resection of the head of the femurand insertion of the neck. Still better it transplantation of the trochanter. After the latter operation some at finess of the joint must be expected but the patient is able to walk fail it.

VOELCERR (Halle) reported a successful operation on a pseudarthrosis of the neck of the femu in a you g person. He did not remove the head entirely but used the emainder to form a new acetabul min which he inserted a head constructed from the neck.

has a fast test when the structured from the placed of the placed of the structure of the s

RAUSCH (Keenig be g) discu sed the fate of ivery implanted i the human body Ivory has been used at the Koenig berg Clinic for ma y year Rausch's studies were made in experiments o animals in which he implated in a in both soft ti suc and bone. In the soft ti sue a layer of granulati n ti sue as formed around it and in th bone a nar o neer to one from theh callu vas formed later A log with an ivory implant i one e temity as able to stand on the leg after 5 d vs and after 7 days scarcely I mped at all The s ory loes not begin to d appear f om the body until after months or y ars Rau ch showed the by oentgenog arms Because of the hardne s of the material it i mposs ble to follo the micro e pc changes but experiments on animal and chine e per e ces show that good healing and eve tu l replacement of the tra splant occur Ivory 1 particula ly su table fo u e sa pe

Koenig (Wuerzburg) viso emphas zed the lure of 1 ory if tah orbs very sto li It i part cularly su table for parts hich ill not be subjected to strain koenig has used it ith success as a substitute for the lo er j and as a substit te for the humeru in sarcoma

Cotton classifes f a tures of the h p as (1) e tra capsula fractures not mp cted (2) ntracap lar fractures impacted ell hight, ent at 11 ad (3) epiphyseal separations. He does not discuss the third group.

In fractures of the f st group bony min al ass results the usually a good prognoss if co a ar 1 prevented C tton recommends for the class of case t extment by traction of from o t | b the leg in bout , degrees of abduct on for from 6 t 8 weeks Walking may be allowed after from 10 to 12 weeks and return to work after from 18 to 20 weeks

The intracapsular or high fractures of the neck of the femur are those which result in loose joints and for which artificial impaction is suggested. They are much more common in females than in males and usually occur in the iged as the result of Interal falls on the buttocks. Cotton has found that under the usual routine treatment only fractures impracted by the fall have good union. The others he treats as follows.

As soon as possible after the shock of the injurhas sub-ided the patient is anæsthetized and while one operator makes traction on the leg with the stockinged heel in the pati it is crotch and another steadies the pelvis the leg is drawn down to the proper length abducted moderately and rotated inwardly. The surgeon then strikes the padded trochanter several following blows with a heavy wooden millet. Impaction results when the leg is felt to give and remains in position without rotating, externally a double plaster spica with a cross bar is then applied for from 10 to 1 weeks. This is followed by a Thomas caliper splint. When the X-ray shows marked bone absorption diathermy is often beneficial. The length of time the ambulitory splint is worn is determined by bony union as checked with the X-ray.

Poor or doubtful impactions are broken up and artifically re impacted. If this is done and fixation is sa isfactory bony union and a useful limb will usually be obtained. So far spil ing followed by city motion has not been entirely successful but how its end results will compare with those of the described method of artificial impaction is as yet unknown.

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

## BLOOD VESSELS

Villechale and Mouel et Ane i m of the Extra illine A tey ith Rapid De el pment Extra tonof tle St After High Ligaton of the View Late Functional Results (

In July 0 o 1 man 1961 38 very with no history fixelt the lopel small ancoursant syelling in the left will region Th 1 associated with prain in the left leg richting, in the dir but on of the crural n re 1 August the pain equire 1 the alimin trait no fin ppl a 1 the selling also e the crural art his the ze of a large nut Eight do 1 ter th 1 nicil in a 1 the size of 1 no range and the activated to implure (ele e of the shin) with a black ecker the 12e of a 57 anc piece). The epin like he will be poor o idition from emication emit up few ad intended that the size of the 1 the size of the 1 the 1

The Wa reacts u i pr vel to be con stantly negat

At operation jerf m 1 tl ugh 1 midline ince on in the bil men the et en lilu ic arters was ligated ner its right at econd operat through a eu il c o r the erir! I ach a formul ile hamor hage occu ed an i nece stitle! packing The pertobecum was stripe! back an ligatu es e pl el n the et ll ac arter tobe e and bet ile sac and on the femoral ritery a die e lihe ac visithen labor ousle exti pried and the kin el la roun ia dr i

The p top attended the second of the pain a lear lear ble immediate shock. The aneurismal of a uppuratel and infected the laparotomy sutue of which brike do the temperatue reme ed elevated filming day. The left lower himb

retured to ornal

The pats in left the h spital scales after the operation. Examination 6 months later both earlies to be supported by the left limb but the had not interrupted the jame to scales at later in At his with the prittent. It is at later in At his with the prittent liked a listood all lix There van intrinitient cludi at nit at earlies had not be seen to see the line jump to the prittent liked a listood all lix There van intrinitient cludi at nit at earlies for seen seen the seen seen the like jump the most of the seen the like jump the like jump the liked for the prittent liked in the liked seen the lik

aper but vas not visible at the base of Scarpus triangle

In spite of the good functional result the blood pressure showed disti ct vascular must feence. De term nations of the press rein the legin the standin position ere interfered with by trembling if the legis. The pat ent had hypertension and aortic in the circumstance or appreciable exdema but the test feel size iron and the left thigh or larger in the left feel size iron and the left thigh or larger in larger in

W LE C BURKET MD

Nicholson B B In ic select s Etiology and Tentment a Clinical and Il t i gi ai St d

cir umfere ce than the right

Nichol on revie s 11 cases of varicose tens seventy of the patients were males. The cases are unselected but care has taken not to include a vith a hi tory of leep circulation; d sturba ces sincholson believes that the latter are of an ent revidinger to nature. In the cases which he classifies a sidiopathic the arrives were almost in a rably over the nuner a ject of the calf corresponding to the little but no file tributarie of the great

ph no s cin

1/fts fee per c tof the pate is gave a definate
fam h 1 tors. Jo to five per cent gave either no
1/ftor or an gative one Nichol on feel confident
that hered to is an important factor. Pregna er
playso li a secondry p i Sixty nine per cent of
the patients devel ped the condition b timen the
tage of 8 and 30 years. Both leg 1 ere about
equally affected. The effect of card orespirit ry
disturbs c 1 ouests oble

disturble 1 questo voice.

Histologicalli, the e 1 agreat variation. In the same sect in may be en a greath inthehend are add cent to may e thinnel for the same sect in may be en a greath in the same section with the same section and the sa

The tre tment is p phylact c supports of surgeal Whe the conditions a three by the st and them of eme t f the e s. I ght their t me t sl ull bed rectel to arl prevent grather lamage by f oring the legs by postue f of bid in stre uo s ever is and apply; et st c support. The mo eal va ced cas are be tri at the law sign measure hutgrettare nece any in the redection

v ins

The usual and most generally accepted procedure is excision after the course of the veins has heen marked with dye It is he t to excise a considerable portion of the suphenous vein shove the

For cases with ulcers Smits advocates stretching or teasing of the internal saphenous external popb teal external saphenous or sciatic nerve If the ulcer is large he either curettes it or does an excision followed by skin grafting Keller has described a method of ohliterating the lumen of the varix with a continuous silk suture applied suhcutaneously in order to prevent scar formation. Another method is the injection of the lumen with ome substance that produces a thrombus which subsequently organizes Douthwaite used this method for 2 years apparently with complete success. He injected a solution of quinine hydrochloride urethane and distilled water Sodium salicylate mercury per chloride and other substances have been employed CHESTER L CREAN M D for the same purpose

## Injection Treatment of Varicose Veins and Their Sequelre on the Basis of 500 Treated Cases Acta chiri g Scint 19 7 lv1 1

The chief purpose of this article was to point out the close topographical relation between varice and their complications ulcus cruris and eczema chronica cruns

Five hundred patients received 2 4 injections Three hundred and seventy of the patients were women. In 55 cases there was a history of philebitis a condition of great importance in the prognosis In 40 cases the varices were complicated by chroni eczema of from 1 to 10 verrs standing and in 135 cases with an ulcer of from 6 months to 40 years standing In 53 ch es the ulcer had persisted for less than a year in 57 cases for from 1 to 10 years in 13 for from 10 to 0 years in 8 for from 20 to 30 years and in 4 for from 30 to 40 years

The principal indication for the treatment of ulcer is pain. In all of the cases reviewed except the uleer was healed at the time the patient left the hospital One of the 2 ulcers that were not healed at the time of the patient's discharge was on the back of the calf and the other was a small ulcer on the internal aspect of the foot. A temporary recur rence of the ulcer developed in only a few isolated cases

Frequently varices are concealed by their complications They become visible only when the cedema and swelling have subsided or are found only on careful palpation with the patient in the standing position resting on the leg that is being examined

The venous pressure was increased in the various but no relation between the venous pressure and the extension of the complication was manifest d

The etiological importance of working in the standing position was evident from the patients occupations and the extremely frequent co existence of pes valgus

In the 500 cases there were 14 recurrences after operation In 150 additional cases there were 12 recurrences The relapses indicate that the blood from the deeper veins was forced out through the anastomoses Injection treatment is far superior to operative treatment because it obliterates the veins in which the blood is stagnating

Lyperiments carried out on animals showed that cocci circulating in the blood do not infect the

Necroses are milder complications occurring during the treatment. These may give rise to They may be avoided by careful phlegmons technique Besides 3 cases of phlegmons there were

cases of infarction after the injections of from 20 to 5 ccm (maximal dose per injection not to exceed to c cm ) cases in which phlebitis devel ope l and I case of harmorrhage The incidence of complications was I 6 per cent The treatment caused no death or lasting disability

During the last 4 months when a new technique and a new injection fluid were used there were no

complications whatever

In 35 cases of hamorrhoids the method give ex cellent results but a small tissure developed in 2 case and a small fistula in I The fistula was op erated upon under novocum an esthesia

## Berntsen \ Variees of the Leg Especially from the loint of View of Etiology and Surgical Treatment 1 to hi & Said 1027 lxii 6

The author discusses the etiology of varices and the results of their surgical treatment. The etiology has been studied by investigations on cadavers clinical examinations of patients with varicose veins in different stages and microscopic examination of the walls of normal and varicose veins. The article is summarized as follows

I In agreement with the findings of earlier investigations the e studies have confirmed (1) the importance of heredity ( ) the greater frequency of varices in women and (3) the occurrence of vari ces as a rule before the age of 30 years

In the majority of cases varices are found in both lens

3 Varices are of a types (1) the isolated saccular varix () the torthous varix (3) the solitary di-lited and hypertrophied but otherwise normal piece of vein interposed between the true varices and (4) fine cutaneous dilatations

4 The different phases of Trendelenhurg's phenomenon are elucidated. The signs used to designate them are O + - +-

5 In early varices Trendelenburg s phenomenon is O in insufficiency of the valves above in the vena saphena magna + in insufficiency of valves in the anastomotic branches to the deep veins and in insufficiency in the valves in both places +-

6 The inconstant localization of the varices has been verified by clinical examinations and by dissections of cadavers The cause of the condition is to be looked for in the wall of the vein itself

7 Varix formation has been found to be due to atrophy of the muscular fibers in the media while the elastic t saue in the ea her stages attempts to sta e off the lilatation b undergo ng hypertrophy

8 The best operative result are obtained from e tensive e tirpat n of the va ces probably be cause in this proce lu e an at a mal inflo through incompetent valves and anast motic branches to

p e ente l the deep in 9 It i defi tel a lvi ble to operate before the

obtained even in the cas f comprati elveld

condition become advanced Go dire ults may be patients 10 Ad all antage f perative treatment sithe risk of e b lism I 3 6 pate ts embol m c curred in 72 per c t lt proved fatal n o 7 [ r cent of the cale

Allen E V and B o n G E E oneou Dagnos of Rayn ud's Dise e n Oblite ative V ular Ds e (Thombo Ang t Oblite an ) I Va omoto D tu ban Smulat gRayna ds Dse e II Thombo Ang tis Obl tus of tie Lowe Extremt II Pul ating Pedal Arte e 1 J M S φ7 cl 3 9

Vascular i e e f th e trem te may be h v i i into t o group the organic or oblite ata e and the va mot r funct nal Thromb an t bliteran and a te lerot discr e fall into the fir t g oup an i Ra nauls i cre an lereth ome lalgaint the onf Rynnuls I en ea err n ouls diagn eliimi ca of thromboing ti oblitera In the unal c se f th ombo neuti obliter i thi in cu bl as th condition characterized by abec or lorge farte il pulsatio e e e hor on depend nee ab ormal pallor on elevat n in l imptom of arter locclu sion such as e ce iv fittigue o the pa n of ela di cat nin ngle lgt the h fthef t the ankl or the calf Only male a e affected and recur nt sure hard phl biti c urs in 40 p cent f the heh eu aln t cae I I iauls di e clus al 11 fm le n ne of these symptom or phy ical ching si fun l Two type of c e cause difficulty in diagno is

Tlefrtisth a in hihva m trobtu bancs of the I yazultyr occur as the cut t ading clini cal manuf t t n of ascula d ea e These are u ually one rt tage a op tie pben men such a exc 1 e rall after expoure to c 11 follo elby a return t the norm l color resce s e pallo f ll lb xce rub rand a cturn to the normal c lor M c pice am nat n h to be lue to changes to e of the coull van l the entering art old In 30 per ent of all c e of th ombo anguts obliterans these Ra naud I k phenomena e p e ent to some legr e but cl quest on g an l careful e am nation vill e eal evidence of ob truct e arterial d a e and the d agnosi can be p o ed by p thological tul s

The second type f ca e of thromb ng ti ob literans which a often incorrectly li gnosed

Raynaud d sease 1 that in which the obl teraine lesion and gangrenous changes are confined to the toes an I there are normal pul ations in the pedal The on et in these cases is sudden with spontaneous pun and pallor in one or more toes The pallor is gra lually replaced by cyanos which becomes progre sively deeper Pain is severe and amputat n i necessary. In such cases the u ual e ide ce of obstructive arterial di ease is lack g the arterie pullate no mally there is no excess e fatigue or pain of classication in the arch or calf and there are n color changes on change of po ture except n the affected toe Further conf sio is cau e I by the occurrence of Raynaud like phenom ena in these toes Embolism must be excluded In R vnauls d sea e however color changes result ing fr m the mal or psych c insults are pre entlon b fore g grene occus they are symmetrical and invol all of the toes. The eaction is complete-pll r evans in l rubor. The condition occu lmost exclusely in females and superficial phle biti i e er pre e t In thrombo anguti oblite ans of this type vasomot r color changes occur con c lentally with arterial obstruct n As a rule only one or to t es are affected. The vasomotor reac tions e incomplete that a pallor to normal or pallo to rub to normal on expo ure to coll Only male ar affe ted Pallor is present on elevation in l up of ral phlebiti occasionally occurs Patho-Ige le am tion of the toes sho sarterial oblit cration

Ih differe tial lagno is of the e groups ! e ential fo rate al tre tment Lumbar ga glonectomy i cu ati e Ray aul I sea e ant of re treted valu in elected cases of thromboang ti obl erans

Stul E nd St cker P Eiglt C ses of S P 2 r alect my n Ju n le Fndarter its Obit eran nd Buerge Dese (II t b t d l trinte blt t j t t l i m l d d Bu g ) k d 1 00

Suprare alect mv as first recommende ! ! ! art ral gangr ne by Oppel n 1921 on the assump t that the c lit on due to hipe function of the s p ar 1 glan 1 The author eve v 8 ca es hiel the peration was performed Tive vere case of the obliterating the ombo and to de cribed by Bueger Cie 6 as prob bly n t ne of Bu ger di ea e as the a ter es ere not obl ter ted t se mel t be an a terial c nd ti n cause! by t uma Ca 5 th tof a woman seemed to be a attypical c e f Bue gers d case thi co I tion ri ein om n Mo tof the patients cre n the ad ance I stage f the d sease with manifest g gre e In r c e mrutat on of the toc s reces a 1 the 1 gree of pe ipheral gang ene 1 d not se m to u fur llel In cie the ns lerable it cul tion in the fem r l rtery th re as e ere gang ene 1 a n case in which the femoral

artery was completely obliterated the gangrene was less marked

Histological examination of the vessels showed organized thromboses rather than endarterits. Two stages were noted. In the first, the vessels were obliterated but the walls were not changed, and in the second the muscular and elastic tissues were being dissociated by the penetration of vascular connective tissue which connected the thrombus and the adventitia. The authors did not find the purulent loci of polynuclear and giant cells in the peripheral part of the thrombus which Buerger considers specific for his disease.

Histologueal examination of the suprarenal glands and not show anything definite and blood examination did not always show a marked change as a result of the suprarenalectomy. In 3 cases however there was a considerable decrease in the blood platelets and in 2 a marked decrease in the coagulability. The bleeding time was not changed. Viseos ity was determined in 2 cases. In 10 them it was still high 10 months after the suprarenalectomy. In the other it was 18 instead of 4.5 which inormal but after infusion of Ringer's solution it decreased to 8. Several days after the operation it was still 8. The suprarenalectomy did affect cholesterems and cau of little or no decrease of

glvemma

Extirpation of the left suprarenal capsule by the extraperitoneal route is not a dangerous operation. In the cases reviewed there was no mortality. The authors believe that the operation is indicated in Buerger's disease because in some cases it stops the progress of the condition and it almost always results in local and general improvement. In 3 cases this improvement lasted for several months and in 1 case for more than a year. In 1 case however amputation of the other leg was necessary 7 months after almost complete cure and in 2 others amputation was required soon after the suprarenalectomy. The latter bowever were in an advanced stage of the condition.

On the whole the results were good enough to justify further employment of the operation

AUDREA G MORGAN M.D.

Neill T E Ligation of the Femoral Artery Below the Origin of the Profunda Femoris In the Treatment of Obliterative Endarieritis of the Leg 1 Si g 19 7 Ixxvi 4 5

In obliterative endartentis the breaking down of the inner coat of the distal arterioles and infiltration with connective tissue gradually elose the lumino of the vessels. Whether death of the part or bealing takes place depends upon the collateral erculation Ligation of the femoral artery below the origin of the profunda femora is intended to stimulate the development of the collateral circulation.

The author reports the case of a man 50 years of age who had suffered pain of a spasmo he nature in the calves of the legs for three or four years. Two weeks previous to his admission to the hospital he

had an attack of severe pain in the left foot and small water blisters appeared about the great toe. The toes then became purple and necrosis of the distal phalanges ensued. There was considerable attention sclerosis. The blood pressure and the blood sugar were normal and the Wassermann reaction was negative. There was faint pulsation in the posterior tiphal attents but none in the dorsalis pedis.

Ligation of the femoral arters was performed just proximal to Hunter's canal Steady improvement in the circulation resulted with subsidence of the gangrene. The patient became able to be up and about but death occurred suddenly from what seemed to be pulmonary embolism.

The extent of the healing is shown by photographs of the foot and the extent of the collateral eireu lation by roentgenograms of the injected ves els

Millian J Pickett M D

## BLOOD TRANSFUSION

# Sidbury J B Transfusion in Childhood J 1m W 1 1927 level 8 5

The author believes it absolutely necessary to cros match the blood before every transfusion with fresh serum and cells of blood obtained the day of the transfusion. He used the Unger method in practically all of his cases but believes that the method most familiar to the operator should be chosen. In infants the median basilic vein at the bend of the elbow or the saphenous vein over the internal malleolus are the veins of choice. If possible Sid bury avoids cutting down on the vein.

Table 1 shows the number of transfusions by years in the period from 1917 to April 1927 inclusive the number and percentage incidence of reactions the re ults obtained and the methods of transfusion employed

In Table II are given the diagnosis the number of cases treated and the results obtained

## SURGERY

Sidbury draws the followin conclusion

r Transfus on 1 a most valuable therapeutic remedy in infancy and childhood

2 Cross matching before each transfusion with fresh specimens of blood is the only safe method of blood matching

3 The blood should be cros matched regardless

of the put e t s age
4 For patients who have been given transfusions

ith incompatible blood exsanguination transfu ion indicated

5 Too little emphasis is placed on hamol \$1 in blood matching

6 The indication for transfusion a e increased as m re is learned of the effects of blood in di case

7 Severe toximins such as are seen in se ere burns erisipelas acute intest nal into ication toy concurson a septicam a infectious diarrhoa and carbo monovide poisoning are greatly benefited by e s nguination transfusion.

8 Re piratory infections of long standing a egreatly benefited and their cour e is shorte ed by the administration of one or more transfusions

the administration of one or more translusions
9 Malnour shed patients with secondary anem a
begin to gain weight after a transfusion even if no
change is made in their diet

EMIL C ROBITS & M D

# SURGICAL TECHNIQUE

## ANÆSTHESIA

Schmidt H Nitrous Oxide Amesthesia in Ger many (Ueber die Stickovydulnarko e in Deutsch land) 5r Tag d d tsch Ges f Clir Berlin 19 7

In Germany there is still some hesitation in the acceptance of nitrous oxide for the induction of angesthesia whereas in the United State it i being employed with increasing frequency. There are stati tics on more than a million nitrous oxide anaes thesias without a single death. The advantages of nitrous oxide are that it has only a slight toxicity its use is rarely followed by po toperative complica tions it doe not can e disturbances of the interme diate metabolic proce ses such as occur in ether an esthesia it does not cau a fall in the blood pressure it induces narcosi quickly and the anas thesia is followed by quick recovery of con ciousne s The danger of the use of nitrous oxide hes in the evanosi that develops in deep narcosis the prevention of which is a matter of technique in the induction of the and the in vitrous oxide is not suitable for every case. It is unsuited particularly for prolonged anæstbesia. In positive pressure nar cosis in conjunction with oxygen (Draeger appara tus) it was found satisfactory in 2 000 cases. As the gas is now produced by the I G Dye Works Germany is no longer dependent upon America for it and it is cheaper

In the discussion of this report Hesse (Leipzig) reviewed the good re ults obtained with nitrous oude amsethe in in the Leip ig Surgical Clinic. He emphasized the ab ence of a full in the blood pressure the relatively slight postoperative comitting and the fact not to be un lerrated that the patient finds the

an estbetic less di agrecable than others

BOIT (Koenigsberg) recommended the ether ap paratus of Ombredanne which he has used for three vears It consists of a metal globe with an attached mouthpiece From 50 to 100 gm of ether are poured in at one time. As a rule deep anæsthesia results after five minutes The technique is very simple the apparatus heing therefore particularly suitable for the general practitioner. A further advantage in its u e is the ab ence of an excitation stage and of po tnarcotic disturbances In the three years in which Boit has employed it there were only two cases of pneumonia Boit attributes the good effect to the rebreathing of the expired air charged with carbon diovide By this admixture of carbon diovide the depth of re-piration is increased and disturbances during an esthesia and following operation are pre vented

GALSS (Wuerzburg) stated that not all American tatt ites are o good as tho e cited by Schmidt He referred to stati its showing three death in 2 500 ca c of nitrous oxide anæsthe ia Even less favor

able reports have been made. The disadvantages of mitrous oxide are that it is not suitable for prolonged narcos: and during deep anysthesia it causes cyanosis. Therefore it is necessary either to avoid deep narcosis or run ther it, he of exanosis. Gauss prefers narcelen angisthesia. The danger of the explosion of narcylen has been overcome by new appriatus. The effort must now be made further to improve the technique of its administration.

MARTIN (Berlin) reviewed to 8.33 ether anæs the ris induced at the Berlin Surgical Clinic by the drop method with the Schimmelbusch mask after the injection of a cm of holoponatropine solution. In this series there were no deaths or late injuries attributable to the anristhetic. Any new anristhetic must therefore by a afe a ether and possess also

additional advantage

ZAAJER (Leiden) welcomed the introduction of nitrous oxide is as be believes better than other unas thetics it will soon establish itself. He regards it as incorrect to allow the patient to become exanotic When the proper technique i u el exanosis can be prevented even in deep anat thesia. The use of ni trous oxide is perhap some what more difficult in gynecological operations. In these rectal ether nar co is is better. Zaajjer prefers nitrous oxide for goiter operations and for surgery of the lungs and chest (po titue pres ure). It is suitable al o for children. If the anesthesn is not deep enough a little ether may be used.

FINSTERER (Vienna) stated that he learned to use and value nitrous oxide in America. For extensive operations American surgeons u e etber in addition and completely block off the operative field by novo came an esthesia When the proper precautions are taken nitrous oxide anaisthesia is not only entirely safe but without any injurious after effects on the liver brain and kidneys such as are produced by ether Local anasthesia and nitrou ovide anastbesia should be used to supplement each other Pain is prevented chiefly by the local anisathesia Finsterer reviewed thirty two gastric resections performed in America in which nitrous oxide was used during the separation of adhesions and during the induction of splanchnic anasthesia and the rejection itself was done under local anæsthesia without narcosis (anæs thesia of the abdominal wall from the lateral horder of the rectu to cau e relaxation) He emphasized the advantages of netrous oxide anæsthesia over ether anasthesia and sees in its combination with carefully induced local anasthesia of the abdominal wall and me entery the safest type of anaesthe ia known to date

In conclusion SCHMIDT cited the favorable statistics of Mayo and stated that he does not favor narcylen anæsthesia

STETTIVER (Z)

## PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Bo dier H The Value of D thermy in the Treat ment of R entgen Ulce at ons (Ui é t n d r tg ff t d l i th mi) 1 t d l

Bordier reports a case in which roentgen ulcera tons on the lower prit of the abdomen accompanied by seice local pain and impairment of the general condition decel ped a fer months after roentgen reradition for a uterine broid. He gas e the patient lathermy treatment for 6 ecks—daily applications in the low confectored so over each that fossa ooo madu ngin period of o minutes. To this ce added eminate in sith a accumelated and city local colored and city local city local

#### RADIUM

Russ S and Scott G M. The Action of Radon Seeds on Tumor and L er Celis of the Rat B t J R dt l 0 to

The experiments here r ported ere performe I on normal rat I ver and Jensen's rat sa comata. The radon seeds ere left in place for arving per ods of time and e tions er, male immediately after their removal or iorty eight hour I ter.

Because of the difficulty of measurement and the rapit growth of the aroma a parallelism between the liver change and the sarcoma hanges was inferred or pp o matel athe than profed

The des ription of the experiments supplemented by pl t m rouraph and cur es The follo ing

conclu ions a e lrai n

When raion ee! are introduced nto tumors and liver of rt limit la eas of destruction result. The extent of the lamage depend mu h more on the amount of nergy b orled than on the intensity of the rail ton. The ell ur ounding the blool e el appe to be pote ted to some extent from the damag ng effect of the r data.

A Jus L Rain MD

#### MISCELLANEOUS

lay E The Fundamentals and tle Clinical
Aspects of Light Treatment with E pe al
Rel tion to Tube culos J t 11 1 9 7
lx 10

Majer di cusse the physical characte sites of light its phot bi log cal effects sund hit versus carbon arc al qui tz mercury vapor hight the development of p.gm. nt in response to light ther app. dosage th technique of evp sure in di the chiucal results obtained ith light therapy in tuberculos

He say that the indications for the therapeure use of the various sources of I ght re still nevert and that the dosage of 1 ht cannot be fixed. The sources of light and the persons irradiated as 1 too greatly to allow any generalizations. The thir guides an light therapy are the sign and symptoms and shim reactions developing in respon e to the

e possures
The selection of a form of light therapy in tuber
culosis may depend on the state of activity or the
form of the disease. In febrile advanced cases imposs
be best to word the u e of heat rays. In most forms
of pro res 1 cacute tuberculos; except those of the
mite times light therapy 1 probably not indicated
In any form of tuberculosis 1 ght 1 used merch is
an adiumant and should be combined with rest

good food and hygienic outdoor life

In the author cases the most favorable respore to solar exposure has been obtained in the so called petuberculosis of children and in tuberculosi of the mph nodes pleura bones and joints perioneum and intestines. The best results from the use of the carbon arc has been obtained; a cutaneous boar and joint bimph node per toneal and ocular tuberculos. With the use of the quat temerun vapor hight the most for orable response has occurred in tuberculo; of the intestines halum flandular os ocalled hidden tuberculos and cutaneous pharm each lary ngeal ocular lymph node a d

per toneal tuberculo is

In pulmona v tuberculosis artificial sources of
I cht are not important therapeutic aid

JOHN S COL TE MD

Dore E Oddy II \( \frac{\text{F}}{\text{ Eid n}} \) \( \Lambda \) Gausan \( \frac{\text{S}}{\text{of }} \) \( \frac{\text{II}}{\text{n}} \) \( \frac{\text{of the Ult}}{\text{of L Light T 1 rapy}} \) \( \frac{\text{F}}{\text{P}} \) \( \frac{\text{K}}{\text{N}} \) \( \frac{\text{M}}{\text{d}} \) \( \frac{\text{L}}{\text{0}} \) \( \frac{\text{I}}{\text{0}} \) \( \frac{\text{T}}{\text{0}} \) \( \frac{\text{T}}{\text{0}} \) \( \frac{\text{T}}{\text{0}} \) \( \frac{\text{L}}{\text{0}} \) \( \frac{\text{L}}{\text{0}} \) \( \frac{\text{T}}{\text{0}} \) \( \frac{\text{L}}{\text{0}} \) \( \frac{\text{T}}{\text{0}} \) \( \frac{\text{L}}{\text{0}} \) \( \frac{\text{L}}{\tex

hight ctting as pathological conditions associted intheonistant or excess ie e-posure to the rays of the sun solar de mattitis high on rist ale ver derma pignent sum and a nile heratosis. Venton 1 made also of erythema ab gevinch is due to the t and infrar drays at the opp it end of the spectrum. We chan cal dangers in light theraps are the breakage of quarte bur ers buns form spluttering elect odes the isk of electric shock e-peril when lamp are installed in b throoms deleterous effects on the eyes burns form ecssi e-eps is debut to and depension produced by too freq at or to length pipications and the possibility of lighting up age er I tubercul uss or aggravati

feb ile disease
Oppy said that children react more ea h and
quekly to light than adults The important signs of

overdosage are increased irritability insomma and persistent loss of weight or failure to grun weight Light therapy is indicated in surgical tuberculouss—especially tuberculous peritonitis and glandular tuberculouss—unless there is active discase of the lung. Cases of tuberculosis of the bones and joints progress better under light therapy than cases of peritoneal and glandular tuberculosis. Pentonitis with effusion is less favorably influenced than the dry forms.

EIDINON stated that tests in titro have shown the light increases the bactericidal properties of whole blood. The cause has not been determined.

GAUATA regards sun treatment as the best form of radation in surgical tuberculosis. He emphasized the importance of pigmentation of the skin as an indicator of the patient's response to the treatment

SEQUEIR said that in his clinic Campbell has noted no change in the metabolism produced solely by the general light bith. In the London Hospital clinic it has been found that light baths do not prevent the onset of acute specific fevers but are of great benefit in post februle debility.

Konners stated that general light baths may light up unsuspected phthisis. Two cases in which this occurred were cited. John S. Coller M.D.

#### MISCELLANEOUS

#### CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Stone W S and Cae L F Tle Colto dal Lead T eatment of Malignant Neopla ms 2.1

The author report on the treatment of reas sof mal gnant tumo by intravenou injections of collor lal lead Se n f the tumo er mammary carcinomata 5 ere b is tumors and the remainder ere cacn mata of the ectum retroperstoners

g osarcomata a d meta tatic (testicular?) The set ton f the cas was made en tirely from the t do int f the patent safety Tumor favorabl f r u g rv or rad att n and case in th l nal w ks f the d case o th marked antemia e cluded

The sltinuel life ed from that employe!

by Bell n being l ne ntrate l'an l more table and e pt in the first injection containing no gelat ne The author recommen la isse not ex ee l ing oo mam of lead. They attempted to use amount wh h would not produce a c cre react on The in ter al b t een jecti as wa d te mine l largely by reco ery from the anam a f llo ing the prevous

1 jection

Sign of lea i to c ty followe I all 56 injects ns but ere se r i ni 4 in tances. One al rming immediate e tion f llowing a small dose was att ibuted t the gltne hich sused in that inject n The gelatine vas thereafter omitted Du in the h 136 h ur 3 vere react onsoccur ed T vo ere haracte z lby hematu a and saundice Two f th se th I proceed and a rapid pulse were as ociate i th pieural effu ion from metastatic mammary ancer Sharp brief rea tion y th vomit ing a rapil pul e an l prostration occurre l s t ne In practi ally all of the other cases the reacti ns se & mild None of the reactions wa fatal Except for occasional comiting cramps and transient jaundice recovery va all avs rapid and complete No se rious miury t the liver or kidreys was observed Destructi n of red cells constituted the chief difficulty The average los was 977 oo cells

I egressi e changes vere observed in 8 cases Four cases of mammary carcinoma sho ved appre ciable regre sions hich in 2 instance mi ht be

de gnate l' s temporary cures

Lead at pears pa ticularly favorable in m mmary cancer v th bone met sta es In mal gnant osteo genic sarcoma lead with rad ation seem to offer a valuable treatment. The use of rad ation in these cases may appear to invalidate the reults but analysis of the cise ho is that most of the tumo vere rad or sit t and sho el more marked re gression tha occurs following adat on alone

The author have no theory as to how the lead produces the change in the tumor but believe that failure 1 a case of chorio epithelioma does not por t to select ity for trophoblastic cell Lead alone or with radiation appears to produce sufficient re gre ion in some tumors partly to confirm Bells result but lead does not seem to offer a cure for malignant neonlasms BURTON CLARA JR M D

#### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

B un R G The R pective Value of Cert in Clinic 1 S pas and Certa n Laborato y Exam-inations in the D gnosts of Echinococcess Acco I ng to tle Find ng in 2 0 C es Tre ted Surgiculty (D la 1 r peet dett t q td tise madlb te t st 1 t 1 1 1 el cocco d p I ) I'll t e S 'd eh 97

From the 250 case of echinococcus cy t upon which he has operated 1 Tunis the author con clu te that the tanding of labo atory examination are of practically no alue They do not become positi until the cy tas so large that it c n readily be liag sed clinically. The natives of Tun s do not come f r treatment of these cysts until they d turb them on accou t of their size and Brun has been su prise I to find how well they are borne

The hy lati I fremitu desc ibed by Dieul foy a patho nomonic of hydatid cyst was noted only in 2 of Brun s 250 case Chauffard s 8 gn of tran abdominal or tran abdominothoracic ballotteme t was ne r fou lat all The diagno s va base ion the pr se ce of a ro n l elastic somet mes fluctu t in tumor and the hisproportion bet veen so large 1 growth d the 1 ght functi nal and general sig 5 In 95 per cent of cases of echinococc s cyst of the lung a roentge c am nation i sufficient for the d gno is Of the 250 cases reviewed hydatifcyst of the Lidne occurred in 5 (z pe cent) which sho 5 that repul involvement is not so rare as generally suppose 1 In of the 1 tter cases the diagno was male from hy lati lu ia preceded by renal c he an lin 2 other copiou hamaturia was the fi t s go of the Lidney tumor Aug EY G M RG W MD

#### DUCTLESS GLANDS

W ntz H L Tie Action of the & Rays o the Endo Ine Gl nds R d l gy 19 7

Roentgen rrad ation of endocrine gland ha I oved of value not only as therape tic procedure in ertai end crine dis rders but al o in exper me tal investigations As the var ou cell group f the glands differ in their radiosensitiveness it is possible by the aid of the roentgen rivs to inhibit certain parts of the glands while others continue to function. Such a selective action was previously unattainable.

The actions which are theoretically possible when exactly graduated quintities of the rays are applied to an endocrine gland are (1) total destruction of the gland (2) temporary impurment of all of the glandular tissue with maintenance of the possibility of regeneration (3) complete destruction of highly sensitive cell groups with complete preservation of less sensitive cell groups and (4) a general increase in the activity of the cells 1 e stimulation. These possibilities require very exact dosage.

The ovaries present the most favorable conditions for work on experimental lines as they permit comparative measurements and the exact reproduction of the dose. By graduated quantities of the receiption rays castration permanent amenorrhea or temporary sterilization may be obtained results which are demonstrable by histological changes in the ovar. It can be shown also that with temporary sterilization the influence of the ovary on the endocrine system is preserved. This is proved by absence of the deficiency symptoms and metabolic alterations which occur with permanent amenor rhean and total sterilization. Detailed accounts are given of the various histological changes produced by different dosages and the chinical results.

obtained are explained on the basis of these findings. The author discusses also the interrelationship between the endocrine glands in various diseases as indicated by roentgen treatment. With regard to the interrelationship between the ovary and thy roid he deals with thyroid dysfunction of the ovary ovarian hyperthyroidism and dysfunction of the thyroid on the basis of hypothyroidism.

In dysfunction of the ovary due to hyperfunction of the thyroid which is manifested by polymenor rhea and dysmenorrhea roentgen ray treatment

of the thyroid gland is indicated

Persons with ovarian hyperthyroidism suffer primarily from an ovarian dysfunction which is often based on inflammatory changes and later develop hyperthyroidism. Roentgen ray treatment of the thyroid is not indicated in this condition but temporary steribization is advisable.

In disfunction of the throid on the basis of hypothroids in the most important signs are polymenoribia increased and prolonged menstrual bleeding and hypotinction of the thyroid. Roent gen ray treatment of the throid is contra indicated in cases of amenoribia due to by pothyroids in the well to prescribe thyroid preparations with ovarian preparations. Stimulative roentgen ray therapy is courts indicated.

The article contains detailed histories of cases showing a disturbance in the interrelation of the endocrine glands

ADDLEH HARTUNG M.D.

#### SURGICAL PATHOLOGY AND DIAGNOSIS

#### Watt J C The Deposition of Calcium Salts in Areas of Calcification 1 cl S rg 9 7 x 89

Watt reports bis findings with regard to the deposition of calcium salts in buman artery walls calcified areas of chrorol plexics pineal plands and thyroid glands. He found that pathological deposition of calcium is not associated with any one type of cell but occurs in many different tissues that no living cells are included in the masses that there is no definite cellular membrane surrounding the mass to which its origin could be ascribed and that the masses of calcium are not encapsulated or sheathed by fibrous tissue suggesting a tissue reaction to them

The most logical explanation for precipitation in the theory advanced by Wells and others that the calcium salts contained in solution in the blood and tissues are soluble only because of a fixed content of carbon dioutde in the solutions and that they are precipitated when the amount of carbon dioutde is Paul Colony MD.

# BIBLIOGRAPHY of CURRENT LITERATURE

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#### SURGERY OF THE HEAD AND NECK

#### Head

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## SURGERY OF THE CHEST

#### Chest Wall and Breast

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Supplementary to

Surgery, Gynecology and Obstetrics

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#### EDITOR'S COMMENT

A FUPTHER report of Sives experimental stu hes on cancer in mice with particular ref erence to the incidence and inheritability of certain forms of mali nant growth (p. 141) is of creat interest not only because of its bearing on the pathogenesis of malignant tumors but also because of the impetus it gives to the study of cancer control an i the encouragement it affords to the hope that cancer may some day be eradi cated That mice which belong to a resistant strain do not develop a subcutaneous sarcoma following trauma that mice born of mothers with cancer do not develop cancer either in in fancy or later if the father is resistant to cancer and that cancer rest tance is dominant over can cer susceptibility are emphasized as significant facts with reference to the inheritability of can cerous disease

The fact that the mice which develop early breast cancers are among the largest and strong est specimens that in spite of the pre ence of large tumors such mice show little systemic chan-e before infection and the absorption of dead tumor tissue occur the fact that cancer does not interfere ith reproduction that the young born of cancerous mothers never have cancer in infancy that the growth of tumors is retar led during ges tation and that in animals with an anteropo te rior axis the growth of both the animal and a cancer is more pronounced at the anterior poleall are cited with other facts as evidence point ing away from the theory that cancer is a germ disease. In the author's opinion no observation made in her laboratory luring eighteen years of experimental study has been consi tent with the germ theory of caucur

Dean Le vis discussion of gangrene of the extremities (p. 140) and W. H. Lewis beautifully illustrated studies on the vascular patterns of tumors (p. 143) emphasize the increasing, interests that i being sho in in the study of the vascular system under normal and abnormal conditions. Since Brooks observations on the possibility of demonstrating the permeability of the arteries of the lower limbs by the injection of sodium iodde

Im If iss 19 4 lyvyn 1016) and the more recent experimental studies of French and American workers with injections of io lized oil into the arteries of the lower extremities new impetus has been given to the question of diag nosis of vascular lesions and of their location and extent Needless to say the discovery of insulin and the increased safety afforded by its use in the many cases of vascular lesions complicated by diabetes have been important factors as well Lewis suggestion to force the formation of the collateral circulation in the leg by ligation of the femoral arters in cases of thrombo angutis and Holman's advice to occlude the corresponding vein under some circumstances above the site of arterial heation when ligating a large arterial trunk ( Inn Sug 1927 lxxxv 173 INT ABST OF SURG 10 7 vlv 180) are some of the practical conclusions resulting from these studies

Schreiber's investigation of the findin's with reference to the presence of ureteral stricture in cos successive autopases (p r 4) is an interesting contribution on this much discussed question. The author stresses the importance of congenital narros in, of the ureter of secondary involvement following inflammation of the pelve viscera particularly the bladder and of compression by the vas deferens and uterine artery. Of the causes the second group is particularly significant for its in ureteral strictures resulting from inflammation of adjacent structures that treatment particularly prophylactic treatment offers promise of success.

Grant's interesting paper on chronic subdural hermatomata (p 94) Fry's careful study of six teen mixed tumors of the parotid and submax illary gland and his conclusion that the e tumors are not mixed (p 87) that they are entirely, epi thelial in origin and do not contain cartilage Botreau Pou sel and Cadenat's report of a case of ileo ileal intussusception in an adult (p 10) and Hedblom's discussion of the diagnosis and treatment of bronchiectasis (p 98) are a few of many other recent papers deserving careful consideration

# INTERNATIONAL ABSTRACT OF SURGERY

FEBRUARY 1928

## ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

#### HEAD

Fry R M The Structure and Origin of the Mixed Tumors of the Salivary Glands Brit J Surg 1927 TV 291

This article is based upon sixteen typical mixed tumors and nine attricial tumors of the paronial or submanilary glands which were removed at St Marys Hospital London in the period from 1912 to

The typical mixed tumors show two main types of tissue (r) that in which the cells are abundant and he closely packed together and stroma is very scanty or almost non existent and () that in which there is considerable stroma and the cellular elements are widely scattered and he singly or in small groups

When there is much parenchyma and little stroma the cells heing closely picked together show very indefinite outlines. Their nuclei are large and round or oval and show distinct nuclear markings and often a well marked nucleolus. When there is abund ant stroma the scattered cells show a tendency to become triangular or spindle shaped and the nuclei generally lose their regular shape and clear markings.

The stroma consists of two distinct parts—one a network of fine fibrillar connective tissue and the other a substance closely re embling mucin and staning with Mayer's mucicarmine. The latter substance varies in its appearance in places having a definite fibrillar structure when it strains intensely with mucicarmine and in other places being quite homogeneous in appearance not unlike the matrix of cartilage. Where the mucinous stroma is homogeneou the cell occasionally seem to be free within small circular vacuoles in the stroma and around the periphery of these vacuoles there is usually some condensation of the mucinous material leading to the formation of a more deeply straining ring. In these areas the appearance is scarcely distinguishable from that of a matrix of cartilage.

In the arrangement of the cells four variations

have been noted

Irregular masses without definite arrangement
 An adenomatous arrangement suggesting glan

dular and gland duct formation

3 An alveolar formation in which alveoli of varying sizes are found. Many of these alveoli may be formed by the dilatation of the duct like structures mentioned. They are sometimes empty and some times contain a homogeneous material which stains very intensely with eosin or pieric acid. In some instances they contain much.

4 A typ of tissue which appears to consist of

4 A type of tissue which appears to consist of interlacing double columns of cells which have split down the middle of the columns. This appearance is produced by papilliferous ingrowths into dilated alveoli or by irregular compression of alveoli.

The nine atypical tumors were omitted from the first group because of the absence of large areas of mucin containing scattered cells which hy secondary changes give rise to the so called cartilage. The oac resemblance of these tumors to the others was their undoubted epithelial origin. They differed from the typical tumors and from each other in their degree of mahgoancy and the extent of their secondary changes.

The author draws the following conclusions

I The so called mixed tumors of the salivary glands are not in reality mixed but entirely epithelial in origin. In most cases they are derived from the ducts of the gland but occasionally they arise from the secreting cells

2 The mucinous material which is such a prominent feature of most of these tumors is a true secretion of mucin by the tumor cells which is only an exaggeration of a normal function of the gland cells

3 The tumors do not contain cartilage In the substance which has been described as cartilage the matrix is formed by a change in the mucin of the tumor whereby it loses its fibrillar appearance and its power of staining deeply with mucicarmine. The cells are epithchal cells

4 Some of the tumors show varying degrees of malignancy There 1 no definite dividing line

between the ben gn and mal gnant an I some of the mor mal gnant growths may show many of the features typical of the ben gn type of tumor

I NEIRER RI MD

#### EVE

I ne N A te i Hyp t ns on and R tinal Chang's B t J Opin 9 7 489

Line hituse arterilh pertension and et nal ch nges f om the viewpoint of the general pract tion er He report the fin lings of e minitions he made frat to clero is f the retin ly ef in the case of patients ho c n ulte I h n ith regard to 1 or ler ha g noth g t lowith their visual o gans nor with hyp ters n The obj t of th see am na tion vas to tuly the diffe of tages f the patho log al noce He a u able to car s out uci a complet nve t sation a is no ible in the cases of hospit I not ent. He e amin d the u in only for sugar and album n and c lled it no mal if albumin and sugar ver b ent and the pecific ravity as n rn ! He li l not dete m ne the quantity t ur ne e c eted in 4 hours make te t of ki frev eff ciency or Wa ermann t st or e amine the eliment of the uri e mi oscop ally When exam ing the eye he not I only the objective gn an I changes as ho vn by the electric path lmos one. He efdom u ed a my dratic. He did n t measu e the visual acu ty nor study the field f v 13n o the sense of color

He admits that the e realf ery er ous om s ons from the scentic p int of e > but twas necessary f hur to carry ut h netgatio the very implet m n r be auc f the impossibility of per to m ng all of th h, his techner lest an fbecup et a h convet on the timple bee auton an feareful

ttention illal as bing forth some val able re ult
When he det mined the blood pessue the patent
sate the blood appropriate on the same feed
as the peof the heart Each patient was a med
at feast to cant die et time

It was u ually nec s rv t rely entrely on the cleet ic opth lmo coje the sphygmomanomet r and the r utin e amination of the u ine h ch e n he made with en t by th g n alp actitio er

The arter s reseld myapat d Th wa not because P e unler stm ted the aftee opalpat on but because he b I welt terv infecult to d te me by th means hether the hardne arterial hype ter on was due to arte to cler tie change o tonice arrivation of the microlar tunear in d The arterio el ro i of the clinic can i d flee at fir in the arterio el ro i of the p thological nation at mix the path logic lanat mix time hy the tirm selens so the tunica intima which or e poind to the thero ele o i of Machail and the ing

sclero of Engl h author te the ultimate form

of hich ather m to s From h examination Pie d a the follosin

conclus ons

1 Scl to 1 of the etinal ve el rec) mized
for t fall fr m the loss of transluce cy of the

vascular wall. Other signs develop later. In a normal jer on this sclero; may not be in until very late and even n advanced que v hen the ve sel of other purts of the b. fv are utlected by arterioselero. If may not be prese t; if the blood pressure; normal

The same to in which is the cause of es ortial by jerpiesis quickly levelops arterioscleroit changes in the retinal we sel even at an early age if the a terril by cetten ion continues long enou h its act on may then cease and chinically the gene at vascular system may recover completely but the a terrioscleroitic changes in the retinal vessel remain permanently

3 There is some reason to believe that the torn of e sential hype pells pre renal in origo but enafaretint a lacteriosclerotic tett its are; obtained and but different to in the spookable that there some int mate connect on (endo. i.e.) bet een the state of the retina and activity of the k dn y. Lettic L McCow M D

#### EAR

Williamson G S Rici a ds E II and Others
Di cus ion n Progr s ve Middle Ear De f e s
Pr K v & c M d Lo d 9 7 843

From a study of chronic middle ear deafne s Wiffiam on reached the conclusion that deafness is the nervous tachs, cardia and deformity of the nose has its on et in childhood and i not associated with dease. He emphase that a tet for auditors acutive as distinct from deafness i urgently refed

acuits as distinct from deafne siturgently recled Richar is concluded from a study of hearing in tencalled that the Gelle and Weber tests are difficult to interpret and unrelibile

A noult N The Lympi t cs of the Ear (C t but let d d lymphat q d pp ! dt1) f / t d / y g g 7

The lymphatics of the e ternal ear drain into the potted global the mit od glot d and the substem in stood glotal. This of thee ternal sudopmentus and the outer surfice if the tympane men bane drain into this superior sub-porturior, from an it has sudog to glotal. They profit and the sudog to glotal. They profit and the sudog to glotal. They profit and the sudog to glotal the sudopment of the substantial that the substantial

In reac fou lymphate t acts passing from the muc u membrine of the cut to his tube. One of them empties into this subtern masto digital ethir directly or after being are est ditemporally in the retrophacy goal gland. A other which exist is mit case follow, the acen ling platine and

empties into the subdigastric glands. A third, which also exists in most subjects passes directly through the retrostyloid space to the subdigastric glands The fourth not infrequently empties into the parotid glands through the tympanic network and the lymphatic vessels along the external auditory meatus There are no lymphatic vessels in the internal ear. The perily mphatic and endoly mphatic spaces and fluids take their place. The perily mphatic space communicates with the subarachnoid spaces through the requeduct of the vestibule in the space which separates the endolymphatic sac from the bone can'l through the nerve shorths and probably through the aqueduct of the cochlea The endolym phatic space apparently does not have any com munication with the subarachnoid spaces

Inflammations and tumors of the privilion may cruse involvement of the privilid mastoid or sub sternomastoid glands. In malignant tumors of the pavilion these three groups of glunds should be removed. As the external auditory meatus and timpanum do not send any lymphatics to the mastoid group a painful swollen mastoid gland cannot be considered a sign of otitis media or external otitis limited to the meatus it indicates only an infection of the helix the antichly or the nayicular fossa

There is a lymphitic tract which starts from the pavilion of the tube prasses along the tube to the tympanic membrane traverses the tympinim follows the externil auditory can'l and may reach the pirotid glands. This explains the phlyctic ulve of the epidermil layer of the tympanic membrane and the external auditory canal often seen in the course of suppurative or non suppurative otilis na cute otilis media the course of the lymphatic explains both the prinful and swollen pre unreular glands and infection and suppuration of the retro phirty ngeal glands. The connection of the perily mphatic spaces with the subarachhoid sprices described explains how bacterin from the internal ear may invade the arachhoid directly.

AUDPEN G MORGAN M D

Horne J The Formation of a Carcumscribed In traducal Abscess at the Site of the Saccus Endolymphaticus I roc I or Soc Med Lo 1 1927 x 1808

The author reports two cases of circumscribed intradural absess at the site of the succus endo cylimphaticus. This lesion is rare. Horne found only two cases reported in a period of nearly thirty years.

Such abscesses may be treated surgically

JAMES C BRASWELL M D

Portmann G Vertigo Surgical Treatment by Opening the Saccus Endolymphaticus Irch Otolaryngol 19 7 1 309

I ortmann reports the practical results of his research on the saccus endolymphaticus which was carried out over a period of eight years

The saccus lies in a space formed in the dura mater where it is divided into two layers. The normal func

tion of the laby rinth is influenced by any change or modification of the tension of the cerebrospinal fluid. The increasing pressure produced through the saccus endoly mphaticus and the membranous Puby rinth may provoke the Memicre syndrome and the increase of intralrby rinthine pressure may have an endolaby rinthine cause.

In glaucoma the intra ocular tension is relieved by puncture of the corner. In some cases of nuncular glaucoma with serous laby inthitis it seems logical to make a decompression particularly if medical treatment has failed.

The operative technique and the surgical anatomy are described in detail In the operation devised by Lortmann the first step consists in reaching the fossa endolymphatica and localizing the saccus The accus is situated in the triangle formed by a line extending to the lower surface of the antrum above the aquaductus fallopii in front and the later il sinus at the back. The surface of the mastoid is exposed and trephined at a lower level than that of the usual opening for mastoiditis. This square of approach aims to reach the lateral sinus without opening the antrum After exposure of the bony wall of the sinus the dura covering the posterior surface of the petrous bone is separated to a distance of 3 or 4 mm. The bony region that represents the most outward part of the fossa endolymphatica is then removed an exploratory puncture of the saccus is made and paracentesis is done. The retro nurreular wound is sutured around a small gauze W M PATON M D

#### NOSE AND SINUSES

Guthrle D and Dott N On the Occurrence of Brain Tissue within the Nose the So Cilled Nasal Glioma 1 ro P v Soc M d Lond 9 , vx 749

A differentiation is made between normal glial tissue in the nose due to an embryonic rest and neo plastic gliomatous tissue which has croded through the cribriform plate. The authors report a cale of crossion of the cribriform plate by a spongioblastic frontal glioma. The embryonic rests which form cince phaloceles are not unisual but this is the only case of the kind that they have been able to find on record

In cases of long standing intracramal tension cerebral herms into the minute natural spaces of the dura are common. The authors believe that if these herms become involved in a neoplastic process the latter will almost certurally penetrate the dura and by pressure erode the cribriform plate into the nose LEIC OLDREE WID.

Rebattu J and Proby II Experimental Ozena (Ozene experimental) I ch internat le laryngol 1927 vvui 804

The authors report the case of a man forty years old who was wounded by a grenade and subsequently developed a unilateral atrophic rhinitis. The roent gen picture suggested an injury of the sphenopala

tine ganglion and the superior matillary nerve. There was probably a deep injury of the sympthetic fibers of the ganglion and nerve. This would explain the absence of the nasofacial reflex and the sen ory disturbiness since the spheno palatine ner e which is the sensory root of the ganglion is closely connected in the superior invullary nerve which also contains sensory fibers. The injury to the ympathetic was too deep to cau e irr tation and therefore caused trophic I turbances the ms st sitting of which vas ozena. On bacteriological examination a pure culture of tayly holococcu was braine! The ribuits leveloped

slo I van I w so ot ext eme
This case lemo struct that injury of the spheno
palati e ga gli n causes airophy but bacter al
infect on i necessar f the de elopment of airoph
ic rhinits. The the x that o axia is crused by
njury of the swing there I phen palatine ga g
lio and the the ry that t reau elby infection a e
not conficting. Inte e local acc nation for the
infection and sympathetic a I endocrine treatment
bring about impro ement and in many cases
recovery

AUR G M R N MD

Malignant tumos f the nasophar n a every deep seated Pall attive remedies include the use of alcohol and ad en lin to dec ea e the si e of the tumor and the application of antisept c compresse. The ideal treatme t s complete remo al into soun it saue but e en when su ha eoplasm s approache by the lateronasal route its complete removal is practically imp sible as it has gene like ettended beyond the nas phary geal c ty. Tho ope at n is therefore associated the danger of caus g dissem at o

Coagulation by dathermy 1 o ly palhative The best t catme tis radiat n ith roentg n rral um rays I cases of d fin tely circum c bed tumors such as some fibr sarcomata d cert in epithel o mata thout enla geme t f the gl n l go d results may be obta ed th ellfite 1 g mma and more radium axs hich are more electi localized than the roentge and Thes rank h w ever may cause nec o s of the bony all of the ca to In mal grount tumors which ar not d fi itely circumscribed only a palliati e effect c n be obtai ed For such tumo the ntgen rays hich are les elects c but al o less localized than the gamma radium rays should be u ed. In cases of lympho a coma both the tumor and the enla ged glands disappear q ckly. While they recur later d the recurrences are more res tant to the rays I fe m v be considerably prolonged by the treatment In cases of e tensi e epitheli mata tl e tumor may be fecreased in s e but the recur ence are more resistant and the effects are not so good as in sar Arm Ev G Margan W D сота

Segura V a d Zubizaretti II Recklinghaus ns Fibrous Osteltis of the Sphenoid and Ethroid Sauses (O tête fbeu le Reklins à la als t tim d plott) lebit è d la y g lo 816

The patient v hose case is reported vas a oman tut vs is very old who had difficulty in masi respiration especially on the left side side is not the got seventeen vers. A turbinotomy was done but after this op ration the root of the nose slowly be came deformed and so tollen and there vas skelle go of the all of the orbit vinterior and posterior this copy, showed a rough hard tumor occupying the 1 ft masal fossi. The tumor vas totally etr. patied it is the docupe due greater part of the maillars phomo land tethnoid is uses. The results of its removal ere pe fect.

The spec men presented the typical picture of Reckl ight, ens d case abundant connective is us with fine fibers p or in cell and vessel and containing only small fusiform and stellate cells oste clasts or giant cells in little groups 1 tests he they had hollowed out 1 the bone substance bone traheculæ still calcureous or undergoing lacunt absorptin in 1 young newly formed trabec le witho t calcium. This case shows that in the local uzed f in off Reckl sphases d sease radical oper at in the tratment of choice. In the general colorns oly pullature treatment is possible.

1 DRIY G MORG MD

#### MOUTH

Be y Sr J G by Turner G Addison O I Veiu M V and Otle D sc ssion in the Tre timent of Cleft P l t by Operation P R y W d Lo 1 9 7 857

BFRN states that for the bet results the cleft paltee operation should be performed between the ges of eighteen months and three years. He does not fat r lesure of the soft palate at a r lat elyea hag and closure f the hard palate later. When the solone the sort issue m has the secondary operation m red ffcult and the sepa atton of the soft the set of the hard palate smuch more ardious. The most important p, to the cleft palate peating in the est ato of the soft ralate.

The important f tures of the lateral appro ima tion ope at o a discussed in detail Griss defects of the teeth shoul I be corrected I fore the op ra The general health must I good When g the operation the patient's houlde's are back there s well elevated and the head is thr less tendency towa d hamorrhage Thorough P rat on of the soft t ssues f om the bony pulate 1 of importance (are mut be e ere i to as id the posterior paliti e a t 3. The literal inc ion t relie e tensi h ld be short cept in ca es of fo the clo re of la ge h les seconda op t in the hard pal te Berry uses deep te sion stitches and protecti e ubber plates 1 place of the lateral incisions

The postoperative care should be simple. The diet should consist of milk or a mixture of milk and water. Washes and sprays are not advisable.

GRIV TURNIN reviews his personal experience illustrating his report with drawings showing the condition in virious crises and supplementing it with statistical tables. He favors the one stage operation. He avoids free literal incisions and uses short ones only when they are strictly needed Dental treatment his proved a useful adjunct to operation. Speech training is most valuable when it is begun soon after the operation.

Secondary operations the postoperative care and

operations on adults are discussed

Apprison states that in his opinion the Langenbeck

operation gives the best results

VEAU describes the operation of muscular suture

Very describes the operation of muscular suture in detail. Total non union occurred in only 2 per cent of the cases

Prix discusses the cleft palate operation from the viewpoint of the dental surgeon. He believes that the Brophy operation causes considerable distortion of the dental arch. From the strindpoint of comfort surgical treatment is much better than a prosthetic appliance. Both the flap method of Lane and the Langenbeck operation cause some distortion of the dental arch. There is often a mixfed discrepancy between the anatomical and functional result. Surgical and dental method should be regarded as complementary rither than antagonistic

NITCH reports upon eighty six cases which he divides into three groups according to the type of

operation performed

MACM thon discusses speech training

Git Lies in discussing secondary operations states that conditions for speech are at their worst when the soft palate is so far forward that it cannot be of aid in the closure of the oronasal passage. As a result of the approximation of the maxillæ the up per lip and nose are situated too far back. Gillie suggests methods for the correction of the e mal form titions.

I UGCE states that the best age for the first op eration is during the second or third month of life

Fig. emphasizes the importance of a functional for plate. If the hirth plate can be closed with out bringing the soft palate forward this should be done. In other cases, a plate should be used to correct the defect.

Valuable contributions to the discussion are made alo by Gryder Ward Higgins Wardell and Brophly W M Paton M D

Bunnell S Cleft Palate Repair—the Cause of I ailure in Infants and Its Prevention S 7g

Ihe main cause of failure in the repair of cleft palate especially in infants is the sucking action of the tongue Before a methol of preventing this suction action was devised the palate often par trills broke down in the first or second week following its repair. The break occurred in either the middle or the posterior half. It resulted in scarring contracture and the necessity for further operation and when the palate was finally closed it was found to be short and unsatisfactory.

The sucking power of infants averages 152 mm Ilg while that of adults averages 440 mm Hg By the author's method closure of the palate is

possible at a very early age

Soon after the infinit s birth the also lar processes are aligned with wires and plates. The lip is reputed when the infant is between two and four weeks of age. The alignment of the alveolar processes is a simple procedure but the lip operation is associated with the danger of fatal homorrhage especially if there is midintuition. To prevent such hamorrhage the intravenous administration of 50 cm of the mother's blood is of value. The pulate is closed in two stages from one to three months after the operation on the lip.

In the first stage flaps approximating each other in the midline are elevated and then replaced for a week. Lateral freeing incisions are avoided if possible and are never carried backward through the muscles and vessels of the soft palate. At the time of this operation a way impression is made of the

alveolar arch

During the interval of one week between the first and second stages of the operation a false palate of sheet silver is made in a dental laboratory. Wres are brought down and out from the lateral incisors and are later bent to fit the face. The silver is per forated at numerous points. In the second stage of the operation in which the palate is closed a pluster cap with hooks is applied to the patients head the rales palite is put in the mouth gainst the upper alveolus and the wires are brought out of the mouth back across the check bent up around the hooks in the pluster cap and then fastened with rubber bands so that the false palate will be held against the alveolus by gentle pressure. I laster easts are put on the arms

After this procedure the mouth is kept clean and the false palate is cleaned once a day by lowering it a little. The patient is fed through a tube in the pharynx. The stitches are removed on the twelfth day under anæstbesin but the false pilate is left in two days longer.

Jumes B Brown M D

Fitzwilliams D C L The Treatment of Cancer of the Tongue L neet 19 7 ccsin 997

Caucer of the tongue hrs a rapid growth and a poor prognosis It commonly starts as a simple ulcer fissure or other benign lesion I eukoplaku is a frequent precursor. The benign lesions should receive early and effective treatment.

The spread of the cancer is downward into the lymphities which run along the muscular fibers. The spread of the lesion is not apparent from the surface but is extremely rapid. The early involvement of the neck glands is due to the active muscular contractions of the tongue driving the cancer cells along the lymph channels to the glands.

Operative treatment is mo t effective when the primary focus is removed first. The glands should be attacked later. In the primary operation, the initial anaesthesia is maintained by means of a fary, notionly tube passed through a stab wound in the cracellyrous membrane. The tongue is controlled hy sout silk threads passed th ough it. The mucous membrane is di ided as lar back as the anter or pillar of the fauces an i the styloglossus muscles are d. ided. The hypoglossus muscle put on the stretch hy traction on the longue is di ided and the exposel lingual arter; is lingual arter; is lingual to the proposel lingual arter; is lingual to the proposel lingual arter; is under the flower than the f

To or the e ceks later the entire gland bearing fascia at the ide of the neck together with the sub-mavillary gland and sternomastoid muscle is re-moved. Prel minary to this dissection the external carotic artery is divided between two ligatures. The cliquids must be carefully protected from mutry.

griding must pec a cutulty protected: from injury. The rimary gowth can be atti ked also ith radium. The mot effective method the implantation into the less of small platinum needles containing or man. These should be left in for a real platinum of the left in for a real plants may be treated with radium implants or idum blocks but this treatment is often follosed by recurrence. Diathermy, a unally to be condemned on account of the resultant necro is and sepais but in some ace sit i invaluable.

In the author's opinion the treatment he has out lined; much superior to the methods n common

use N M Pit v M D

#### NECK

Dunhill T P Toric G lter Th Place of Sur g ry in its T eatment B 1 W J 97 77 Mu ray G R Toxic Golter Ind ations for Su gle 1 T extment B 1 W J 97 774

DUNITEE Clinically the ty o types of tox c soiter --prim v and seconda y-re somet mes indisting

uishable
They depend upon hether the toxicity has developed in a p eviously norm l or a previou by diseased gland. Thee c ting cru e may be raphys cal factor such as a focal infection or bothne deficiency or a psyche factor. In the cases of patients who are economically unable to undergo a prolonged rest cure and in cases: the cetain complications which do not espon l la o ably to medical tre timent—such as heart failure presistent physicosu is severe drops; and insanty—ope at on may be necessary neg refle so of the type of the gotter.

An exist he is may be in fueed with a trous oude at her you have the intratractical method or by rectal either. When the cond tion is complicated by myo cardial failure local a insistle ia i supernor to general anvesthesia. Whene erfectsible the operation should be don n one stage. If this is impossible the piatent should be informed of the fact before the first operation so that he vill not be d sappointed then second operation is necessary.

MURRY: To ic goiters may be livided into to groups (r) primary to ic goiter including (a) simple to ic goiter and (b) evophthalmic goiter and (c) secondary towic goiter including (a) simple secondary towic goiter (b) tone adenoma and (c) secondary towic goiter

Primury toxic gotter is u ually amenable to medical treatment unless complications develop. In p i many exophitalismic go ter surgers, hould be inst tuted if six months of medical treatm in fal to hring about improvement or if early signs of card acfailure are noted.

In secondary to 10 go ter medical treatment 1 apt to be discouraging e en if the tox city subsides the goiter still remains. If three months of medical treatment lail to cause improvement operation is indicated.

In tour idenoma operation is usuall advisable Medical treatment may give some relief but as a rule the improvement is of short durat on toperation i refused any treatment should be

Secondary evophthalmic gotter is rae. In this condition operation should be done as soon as the symptoms are ell defined. Me lical t eatment is disappointing and early myocar half a lure in frequent.

Toxic symptoms may develop when a cyst of an adenoma become infected. In such cases the toxic mia subs les promptly when the pus is evacuated I S Mo E Y MD.

Eberts C. M. nd Ftzge ald R. R. M. Ignant Dec se of the Thy od Gl nd 1 S g 97

The author re: the hierature on mal gasal case of the thyroid gland since Wil on seport in 102 Wil on a lie? 90 cases to the 1 102 leady reported an lite outher shave found in the literature a sil lie to them 432 c ses reported from the Wildons at cle. With 1 new case reported from the Wort real General Hosp tal the total number of cases on record 1 a 1870.

In the lagnoss of malignant throad the most off cult clinic 1 differ extens is that between thyroid malignancy and chrome diffure there there is a dense uniformly hards ellin of moderette size which is usually unit teral at first but soon most e the extre gloud. The surface of the glan I remain smooth and then I mail shape is retained. The patient show an early vaxy fullowing legislation of the particular show an early vaxy fullowing legislation.

In the teatment of third mal game, little hope; offered by ope at a natione. Ope at on shi ultimate following the followed by rad atom. Rathum alone gives a ultimate the compute units or ably in those obtained by other meth.

Ea ly operation: de trable. The best re ults are bta ne i in case which are operate i upon un ler suspicion of milganicy and in those in which the malignance is first discovered at operation.

I LL II S TET MD

Portmann U V Radiation Therapy in Malignant Diseases of the Thyroid Gland J 111 V 1ss

The clinical diagnosis of malignant disea e of the thiroid gland was difficult in at least half of the cases in the author's series becruse small encrysulated acoplasms cannot be palpited. The most important clinical evidences of malignant degeneration are the sudden rapid growth of a pre-evisting outer and the recurrence of thyroid enlargement.

When the growth has passed outside the gland capsule as manifested by fixation of the tumor in volvement of the lymph nodes or metastases the

condition is inoperable

Of the author's patients who were treated by operation alone only 9 per cent were cured and only 18 per cent were living one year or longer after

the operation

Supplementing operative treatment with irradia tion brought about a distinct improvement in the results. Of the patients treated by operation and roentgen ray irradiation combined 18 per cent were clinically cured and a like number are living and clinically well from four to five years after the treatment. This indicates the possibility of effecting a cure in 36 5 per cent of cases treated by the combined method.

Of twenty two patients treated by roentgen irra diation alone operation being impossible 25 per cent are hving from two to three years after the treatment a fact suggesting that some of these neophrsms are susceptible to irridation

Of all the patients treated and untreated 28 3 per cent are living more than one year and 14 fer cent more than three years since they first came under observation. Of the patients who could be treated 37 6 per cent are living more than one year 18 8 are living more than three years and 1 8 per cent are living five or more years since treat ment was instituted.

It appears that the best results are obtained by operation followed by irradiation since 26 per

cent of the patients who have remained cured for five years and 36 6 per cent of those who have sur vived for three years were treated in this manner

The final results indicate the advisability of applying irradiation in every case of malignant

disease of the thyroid gland

The explanation for this observation my he in the fact that apparently the cellular structures of many malignant growths of the thyroid are sensitive to irradiation because of their fetal or embryonic origin and because metastriss must take place through small blood vessels or lymphatics which are also comparatively susceptible to irradiation

HOWARD A MCKNIGHT M D

## Clerf L II Laryngeal Complications of Irradiation 1rcl Otol 3 1gol 1027 vi 338

With regard to untoward effects of irradiation of the neck. Clerif discusses the problems of tissue sensitivity individual susceptibility cumulative effect and filtration. In cases of recurring papillomative of the largy vin children irradiation has no pixel. It does not cure such tumors nor inhibit their growth. The indiscriminate use of irradiation in cases of can cer of the largy via to be discouraged. In the treat ment of operable largyngual cancer the udvice of both the surgeon and the radiologist must be taken into consideration. However, McKinger MD.

Litval. S. A Case in Which Skin Was Grafted in the Laryngeal Cavity by the Thiersch Method (I in I all v. n. Hauttrans lantation nach Thiersch in de I aryn h. ehle). Vestnik chr. v. pogr. vič 13ch oblastej 1926 v. u. 176

This is a brief report of the successful grafting of skin in the lary nigal cavity, by the Thiersch method. The pitient was a nine year old girl who had been subjected to the Mangoldt operation for lary nigal stenosis. After excision of the scar a large mucous membrane defect was covered with the transplant Recovery resulted in the course of a month

ALIPOV (Z)

#### SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

(rant F C Chronic Subdu 1 Hæm toma 1

Crant reports three case of chron c sub lu al hamatoma to sho ho c mparatively t i ril trau ma may r ult in se i us intracr al conditions

Cae wis that faim no fifth two year sho fell do not are sin [s da ell r n le minnt after the ace | t | t | n not enside elserously impared in 1 tuned t vols after ten in A eck 1 ter healnche d cloped | l e f | llo yed by mental impar m t at via art blitt aphasia and thick ess is speech. With | cek afte the injury the patient's a t t lly increase ted.

Examination realed dorient tion sens ry aphasia sum t por blurr g of the optic list overfill g f the rt lesels a the lateral homonomous hem top in an i pa till right hemi

nlema

Roentgenogram f the kull sho d a fracture of the left t mp pricts occipital re on When nost plitte flap va tu ned over the area an old extensive subluibloic lot as fund 1 1 loing the rem 1 of the clit the pate t ecoered and retuined to his o kafter three eeks

Case as the tof a woman of sets nears who fell for a laile set thing the left occ put on the pemet It not he not he pemet it not he not he pemet day but on the earl day after the nyury she de clope I he de che a li day after the nyury she de clope I he de che a li day after the nyury she may be steed but she cont not with he work to a month at the nd of it term to a so test has he hal a raght in laplast nd was deaf About six week. Iter the full he begat on ome became stup ous and le eloped speech defects

Éxam n ti n re e le l'prol und stujor motor aphasin ph toph bin a i n complete right hemi plegia. The knee jik na re fuced on the right side and increase I on the left side. Othe left side there is a positive B timskire et on. Rentge ogr. ms.

f the skull ere utive f r fracture Lumb puncture sh d a clea flu d under normal pres sure The Quecken tedt te t sho ed a no mal n e

Conse attente timent wander ded up nath it but later in the day ope at in a performed be caue the jul slove did wit 60 ls in Case a large rgan zed blooled it as lound a 1 em vel like patient ecor in differ the operation and was still vell the ever late

Case 3 as th t of a m n fo to three vea ol ge tho as kn cked dow and battered by heavy we was while bathing in the suri lie was slightly dizzy after the acc dent and in an hou de cloped a severe b temporal headache. During the ne thou his vision became blurred and finally his left exe became blurd and finally his left exe became blurd and there was marked loss of vision in the right eve. By the next morning however he is his had eturned and after a nech, be resumed his no k with only some headache and mental dual ne s as sequelte of the injury. About three veeks after the injury following severe mental strain be 1 elope I motor uphasia and a semi stupor. Con vul ious then occurred in the right side of the face at the right m and he soon became supprous

The findin s of the physical e amination were about the same as the e m de in Case 1 and 2 lenoting a le ion in the left temporoprinted region. Dept ation resulted large color covern the e tire test side of the brain. Our of or of clot were remove! The dura was greatly thickened hereas in Case 1 and 1 tsho ed little change. Convale to the control of the control of

cels after the operation and returned to work at the end of three months Soon thereafter he had a ja k onian utack on the right s de but recovered in a fe v hou s Later he h d a transient aphasia for an he ur or so but aside from being e citable he ceme I to be fairly no ma

The pathology of chronic subdural harmatoma is obscure V. Ichaw a deety ption in 187; is still generally accepted. The harmorthage i strictly subdural extr. rachnoid a fip bably not a single mas i e hormo hige but a slo ily progress we et a asation I om small v sels with more or less or ginzation iternat g with fresh extens in soft the blee 1 g

Cushing and Pution has ec liel attention to the fact that in the subdural clots of transmix or gain the area of the clot next to the dura is more de set in in clots of chr nic flammat ry cond tions and is composed of organizing graculation it see with large me other un! ed spaces contain g blood a d fib in which appear to anistomo e with each other and it the teap liaries.

Fhe churcal picture is similar whatever the patholog calchange. The e is usually a fairly long late there at followed by the slow de elopment of sg s 1 intrace and pressur and a rather aburpt onset of se e e local s mpt ms. Remissions are frequent.

The treatment is the ame in all ca es viz immediate operation and removal of the clot Ins mediate operation and removal of the clot Ins meases of complexion bas been accomplished through a treps he opening and aspation is been done with a billion and the control of the contro

#### SPINAL CORD AND ITS COVERINGS

Bernard A Hermange M and Delcour J A
Case of Medullary Compression by Primary
Tuberculous Cervical Pachymeningitis (Un cas
de compre sion médullaire par pachyméningite cer

vicale tuberculeuse primitif) Bill et n & Soc med d hôp de Par 10 7 dans 1277

The authors report the case of a patient forty eight years old who experienced two epileptiform attacks followed by the rapid development of a spastic paraplegia which later tended to become flaccid Lipudol revealed obstruction between the sixth and seventh cervical vertebræ Laminectomy was done with resultant fatal sw noon.

Autopsy revealed a localized internal tuberculous pachy meningtis with syringomyelitic cavities due to compression myelomalicia. The upper end of the lesson corresponded closely to the level of the obstruction to the lippodol and was somewhat higher than the upper limits of the sensory disturbance in hypertrophic spinal pich meningitis the upper limit of sensory disturbance may be misleading as it localizes only the ure of medullary softening

Primary tuberculous pach meningitis without involvement of the vertebra is rare. Not more than a dozen cases have been reported. As a rule the tuberculous nature of a pachy meningitis cannot be diagnosed elimeally and may be suspected only when a syndrome of medullary compression and a hypertrophic cervical pachy meningitis appear in a non syphilitic patient who presents visceral evidences of tuberculosis.

#### PERIPHERAL NERVES

Perera A Anatomical Anomalies of the Phrenic Nerve and Their Inducace on the Effects of Resection in Pulmonary Tuberculosis (Anoma liva anatomicas del frenico y su influencia en la efectos de su reseccion por tube culosis pulm nar) Prox de la clim Madrid 1927 vo. 335

Section of the phrenic nerve results in paralysis and elevation of the diaphragm and himitation of respiratory activity on the side on which it is done. Its favorable effects upon he/uing are therefore similar to those of thoracoplasty

The operation is rendered difficult chiefly by anatomical anomalies. In some cases it may be incomplete because of the presence of anomalous branches of the phrenic nerve or its results may be interfered with by adhesions. Traction should be exerted on the nerve trunk and the section done at the lower extremity. The subclavan branch should be destroyed by dissection. A search should always be made for an accessory phrenic nerve.

Contrary to the general belief phrenicectomy is not followed by appreciable symptoms unless the filaments of the vagus have been injured

WILLIAM R MEEKER M D

Desgouttes L. and Denis R. Delayed Paralysis of the Ulnar Nerve Following Fractures of the External Condyle of the Humerus (Les paralyses tardises du cubtal à la sunte des fractures du condyle externe de l'humérus) Presse mtd. Par 1927 VX 858

The case reported was that of a girl of eighteen years who in the course of a year developed atrophy of the intrinsic muscles of the left hand. All movements of the hand were preserved but strength was reduced and the hand felt clumsy. At the elbow there was a marked valgus angulation.

A diagnosis of retarded ulnar paralysis consecutive to a fracture at the elbow was made. At the age of there years the patient had had a severe injury at the elbow but received no medical attention for it. A roentgengrum made by the authors showed a marked displacement upward of the external conditions.

At operation the nerve was found thick hyperemic and flattened where it passed through the ulnar groove. It was displaced from the ulnar groove to the anterior surface of the foreirm and fixed under a flap of fasce. Rapid recover; followed

The theory of pathogenesis found most recept able by the authors is that of Destot Destot demonstrated that the nerve suffers no damage from deformity in valgus alone but as the power of extension is recovered the oberanon encroaches more and more on the ulnar groove and a neuritis results from repeated punching of the nerve

ALBERT F DEGROAT M D

#### SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Finzi N S and Ottles Dicussion on LR y and Radium in the T eatment of Cancer f the Bre st 1 H J 9 7 7 8

Cancer of the breast spreads first by the lymphattes and later by the blood stream. The fact that cancer cell can be trace! long the lymphatic chan els seems to sho that it it he cell them else that spread the dierse. The cells of normal its uesdo not appear to enter the lymphatics.

I he lymphatics of the breast paper mainly into the pectoral froup of a villary gland and in some in stances lirectly to the ubclair ull nd nt roostal spaces. These area must the cloerecter primary attention in treatment vill r dium or the roemigen

Radium rays are much more penetrating and seem to exert a more marked effection coronoma than a rays but may cause injust to the underlying lung

With the roentgen rays the use of a glancing method will prevent such lamage to a large e tent. The with raide crib the method in detail

As compared the the News e termal applea in no frahum his ether aloratage. If eate pene tration and a more suit blovael agil multiple focior is ness of lip, for and continuous application. The climiting is either directly of administering an even is eralarge are and of volding any to a his. Puldum traim it may be give also by bit ving a number of adminiscent in the save

The result obtained by the u of either ral um or the arms may be sommed up by sit it gitlat palliation and prolongation of life either ule and cure is the eigen tion

When a case is n t to far ad anced radium seems to g e better re ults than the \ rays

I \ 1 \ W \ S FET \ M D

Armani I Roentgen Su gleaf Tetnent of Cancer of the Breast (C 1 wit tt met 1 h 1g 11 d tlam mm II)

The autlor quotes stati to s from number of hop 1 th sh. 15 that the motalit fr meane constantly increasing. Next to can er of the ute urineer i the breast the mot sequent from of cancer in one; Statistes sh. that at less temporar eco ert has been obtained in a sign good preenting of cervic ace but that in late cae there uits heepe poor Statistes cases in hich ratiothe app. his been a sociated in ingers indicate that careful reentigen treatment improve the re uits of surgers.

The result so far indicate that the methol of radiitherapy must be carefully selected in each case there is no single technique that can be apple to all cases. The princip should be cannied by the roentge ologist in colliboration with the surgest at all of 19 os bile with the histologist and the methol of treatment electer is bould be brised upon the centh in 1 juligment of all. I stitutist in poor gene it conditions should not be tradiated the central conditions of the continuation of the continuatio

In c se of noperable cancer of the brass rradut n Inpte I to the special case should be gen if the patient is in goof general condition. In per bic case the best results are obtained by mod rate postoperative irradiation. Thou has tow for pertie verification eems to jied the bet results it hould be given only when recomme led by this surgoon. In cases of recurrence irradiation eems to give better results than does another peration. With the Order to the control of the peration.

Luhm nn k Postope atl e Roentgen Irrada
t n of Carcinoma of tle B erst and Its Tech
n que (U p t p t k ntg b t hi gd
M mm r m ni ii T chn i) B i hi
Cl o2 cx 544

In the compar son of stat sites regarding the re ult of treatment Sentialiae classification of car commants of the breast is of practical value in giggs, the me an erroneous classification of bolicities of the control of the process of the control of the process of the Steinhall II group should be preciages of the Steinhall II group should be useful.

In seventy fixed case operated upon and irradated three year age in lifety for cases so treated fixed to a specific form of the following sevents of the sev

P # i	11	ПЪ	1I	11 -c
n sei	N	N "	1	1 -
Ti ee F 5	8 3 3	1 37 8 7 4	0	9 38 9

The neutradiate i cases treated in the same clace must be ompared as more than a third of the patients could not be traced

As come relevith the state ties of Dietre hand Frang nhim which showed three year urve aline the Steinthal II group in 30 per cent of the cases in foreign countries and in 55 per cent of those treated in Germany the results obtained in the Goet tingen Clinic by irradiation show an improvement

of from 8 7 to 13 2 per cent

In every case the carenoma dose was given at one time and usually within a period of fourteen days a large field including the atillary and mifra clavicular fossas was irradiated with a skin target distance of from 40 to 50 cm. a tube field including the supraclavicular fossa was irradiated at a distance of 3 cm or more and a posterior field corresponding to the thoracic field was treated. Each field was given from 100 to 110 per cent of the skin erythema dose with filtration by 1 mm of copper and 1 mm of aluminum. This treatment was not repeated before eight weeks.

In numerous secondary irradiations telangiec tases occurred four times and a small roentgen ulcer developed twice. Injury of the lungs was not evi-

dent either subjectively or objectively

As carcinomatous glands may be present in spite of negative findings on examination cases in the Steinthal I group should also be irradiated. Of the patients in this group 83 3 per cent were free from recurrence after three years and 7 7 per cent were free from recurrence after a period of five years. HYTEE (2)

#### TRACHEA LUNGS AND PLEURA

Ochsner A and Nesbit W Pulmonary Abscess Following Tonsillectomy Preliminary Report 1rch Ot laryi gol 1927 vi 330

When tonsillectomy is performed under anæs thesia some of the material that enters the phary ax during the operation may be aspirated. Whether an abscess of the lung develops or not depends on several factors most important of which are the character of the material aspirated and the protective mechanism of the cough refer

In the authors opinion aspiration occurs as fre quently during tonsillectomie performed under local anæsthesia as during those performed under

general anæsthesia

That a pulmonary abscess following tonsillectomy may be the result of the passing of an infected embolus from the vessels of the neck to the lung has been shown by a few isolated clinical cases in which multiple pulmonary abscesses were demonstrated.

One of the most convincing proofs in favor of the aspiration theory of lung abscess is the invariable existence of a communication between the abscess cavity and a bronchus. By a pathological study of ten cases of pulmonary abscess following tonsillectomy. Oschner demonstrated that the ab cess cavity is a direct continuation of a bronchus.

The mass of evidence reviewed indicates that the most common mode of infection is aspiration into the tracheobronchial tree when the protective refleves are abolished. Under general anæsthesia these reflexes are abolished under local anæsthe ia they are supposedly not abolished. The authors

believe that their observations supply the evidence necessary for support of the aspiration theory. They have proved that the introduction of only a 0.5 per cent procaine solution into the periton sillar tissues abolishes certain protective reflexes of the respiratory tract.

HOWARD \ Mcknight M D

Pierson P H Non Tuberculous Pulmonary Sup purition Cal f rma & West Med 1927 xx u

Pier on reports thirty case of non tuberculous pulmonary suppuration to clarify the syndrome of pulmonary abscess bronchicctasis and chronic pneumonia which for the past decade has been confused with that of pulmonary tuberculosis

In the cases of pulmonary absces due to the aspiration of foreign material the one twa sisually gradual with fever malaise and an unproductive cough. After a period of from twelve to fifteen days chills and sweats were added to the picture. The symptoms persisted until the ab cess ruptured. In case due to anaerobic bacteria there was often a latent period of from ten days to a fortnight.

In ca is in which the condition was the result of embolism following an operation, the onet was sudden with sharp pain in the chest followed by fever and an unproductive cough. After a period of from ten days to two weeks the abscess usually

ruptured

The development of a pulmonary abscess in bronchopneumonia was indicated by the recurrence of a protracted fever after apparent subsidence of the infection. On account of the danger of producing an emprema, the author warns against diagnostic needling in such cases unless there is visible evidence of adhesions between the visceral and parietal pleume.

In two of the cases reviewed an abscess developed

in an upper lobe after a rib fracture

In the diagnosis of lung abscess a detailed history is often necessary to determine the etiological factor. A careful roentgenographic study is of great value in determining the etiology as well as the location character and progress of the abscess Repeated negative examinations of the sputum for tubercle bacilla in cases with considerable purulent expectoration should suggest a progenic abscess rather than a tuberculous lesion. The physical signs are often indefinite and merger as compared with those produced by a tuberculous lesion of like extent.

In the cases reviewed the treatment was of two types medical and surgical. In the medical treat ment rehance was placed chiefly on general supportive measures. Few drugs were used. In cases of acute abscess postural treatment was of great value. When medical treatment failed after a trial of from four to six weeks surgical treatment was given. In the absence of adhesions between the pleurae the two stage thoracotomy offered the best results. In all cases in which a foreign body is sus

pected or known to be present bronchoscopy should be considered

In cases of chronic pneumonia and bronchiectasis an accurate diagnosis is essential for proper treatment. The pathology of the two conductors is decribed. Reentge ological study after the administration of lipiodol is helpful in distinguishing bronchiectatic catities and saccular d latations from diffuse fibrosis. The patient should be  $p \in P$  by the pared by postural drainage of the cavities for at least an hour prior to the administration of the lipidol.

The essential of medical treatment include a change of resilence to a climate that is warm and dry Local treatment by postural draininge and duthermy are of value 'thenton to the gene al health artificial or natural sun baths rest and a high calone diet are of great importance. Autogenous accine therapy has been found of great value for the rel ef of the cough a despectations.

Surgical measure are indicated to eradicate fool infection. In qualitateal cond tions which do not improve under medical treatment drainage of the large cavities and Graham a cautiery lobectomy offer a hope of cure. Lettrapleural throacoplasts with acul ion of the phr inci nerve is a means of compressing the affected lung. In chrome pneumon and broncherates as an will as pulmonary abscess pneumothorax is associated with the danger of producing a popeneumochorax.

I E IN KIRKPAT I K M D

Hedblom C A Th Diagnosi nd Treatment of Bronel eet s S J I) If t 9 7 l vi 384

The dagnosis of bonchectasis based on the ordnary clinical ob ervations has often been doubt ful as to the distribut on of the condition and always incomplete as to its tipe and extent. By bronebog raphy with the use of a contrast medium the prence of tribution and type of bronchial dilatation may be visualized.

The principles of su girl treating to honomial octains are din ange compression and extination Drainage 1 the treatment of choice in a nigle cavitations and for localized gargerious extension. The method of pulmonary compression a artificial pneumothorax phy nice excress extrapleural thora coplasts and pneumolysis.

In early mild cases artificial pneumothorax or temporary paralysis of the phrenic nerve or both are indicated as tentati e procedu es In cases of lo g standing the treatment of cho ce is phrenico evertes a and graded extrapleural thoracoplasty The usual

result is marked improvement approaching a symp

tomatic cure
On account of the high po toperati e mortality
and the frequency of re idual bronchal fistula pri
mary, lobectomy and graded cautery ext pations
are not to be recommended. Secondary lobectomy
when indicated following thoricoplasty and phren
toe excress should prove relatively safe and very
effective.

Jennings J E Chronic Empyema Ann S rg

Jennings reports two cases of chronic empyema n hich the lung vas collap ed covered over by a thick pleura and lying hack against the spine

In the first case that of a nineteen year old boy with a history of tuberculosis the first operation was performed after about two years of inadequate dramage and tarping. The first step in the treat ment consisted in se uring adequate drainage by re ecting no tions of three ribs \ fe v weeks later the lung va stripped from its bed and allowed to roll forwa d About th ee months later the che t was again opened a 1 the fall e membrane stripped from the su f ce of the lung the lung was freed a flap of the chest vall under the scapula was mob l ized and allowed to drop back, and portio s of the sixth seventh eighth ninth and tenth ribs were removed to collap e the cavity at the bottom A small sinu per isted and gave increasingly se cre symptoms though its intermittent opening and clos ng \t ope atto for the clo u e of this sinus a bronch al fistula vas found This finally clo ed after rib re ect on an i muscle implantation

In the second ci e decort cation was done and the chest closed Twenty month litera ut act opened up The removal of a nb sequestrum fou d at the bottom of the nus tract has follo ed by

TECOLETA

The autho empha 1 e the importance of the wide flap open ig in the chest all in so snot of the pleura along the outer edge and liberation of the lung from its be les of h t ima c me f vard. Be cause of the la ger of te g the lu g in strip p g the pleurs the pleura on the antenor su face of the lung is n t touchel. The te hn que is sho n in a numb of illustr it.

dı LIM MD

Parker D W Tie T eatment of Empyem In Citid en by tie Closed Method and Suctio D Inage B ! If & S J 0 7 653

In the dagnosis of mpyema reli nce to be placed cl effy o the Vray and the aspirating needle. The latter may be used athout hes tain in to determine the presence o be ence of pullars.

as the tyle t the infects

Stats tics ha e sho n that emprem 1 e pec ally seriou in the fit fev wer of hir ga dless fithe type of teatment. The mortality 1 infle ced by the haracter of the infection the p tents as a dthe time of operation. The choice fite times as much mooted question. If it prefer the losed method but f m a eries of 66 case. Ladd and Cutler conclude that every streptococcus 1 fect in s in resection give more sat f cto y immedit eand termoit results.

The auth reports eighteen case 11th one death has method of treatment a pirat 1 al a s done before operation usually 1 the po terior ax lary has between the se enth and eighth ribs to determine the character of the exudate If the fluid

is frank pus thoracotomy is performed at once but if it is serofibrinous or thin and only slightly turbud aspiration alone is done to relieve pressure symp toms and thoracotomy is deferred until the character of the evulate changes

Novocain infiltration anæsthesia was used in all but one of the cases reviewed. An incision from it of in in length was made in the posterior avillarly line between the seventh and eighth ribs down to the fasca covering the latissimus dorsi muscle. The fasca of the muscle was then incised in line with the muscle fibers. The muscle was split and the ribs and intercostal space were exposed. The intercostal muscle was then further infiltrated and per forated with forceps or existors. When pus appeared a 24 to 27 \( \Gamma\) catheter was introduced through the opening.

Previous to the operation a piece of rubber dam 3 in square was perforated in the middle and drawn over the catheter. The rubber dam was tied around the catheter from 1/to in from the tip. This made a shield which was pristered to the chest vall with adhesive tape after closure of the incision. The catheter was further anchored with tape strips.

Pus was then aspirated with a syringe but the aspiration was stopped upon the first sign of discomfort or coughing. After the aspiration a large dressing was applied and the child put to bed in a sitting posture. To obtain air tight drainage the catheter was connected to glass and rubber tubing leading to a jar of water on the floor and the claim was not removed from the catheter until after the tubing bad been placed in the water. With this method no special instruments are required.

Twenty four hours later the chest was irrigated through the catheter every two hours with from 30 to 60 c cm of 1 per cent chlorazine solution. This procedure was continued throughout convalescence in the author's opinion the solvent action of the Dakin's solution is the most valuable feature of the treatment. The tube should be left in the chest for from fifteen to twenty days.

GEORGE & COLLETT M D

#### HEART AND PERICARDIUM

Ramond L and Weill Spire R \ Cure of Puru lent Pneumococu. Pericarditis by Epigastric Pericardotomy (Gufn on dune pericardite puru lente \( \text{\text{a}} \) pneumocoques par p ricardotomie pigas trique) \( Bull \( \text{d} \) \( \text{mein} \) \( \text{Soc} \) \( meid \( \text{d} \) \( \text{d} \) \( \text{d} \) \( \text{Par} \) \( 19 \) \( \text{Viii} \) \( \text{if} \)

Paracintesis pericardu is not satisfactory in the treatment of acute purillent pericarditis. As soon as the condition is diagnosed a pericardotomy is indicate! The thoracic approach however has seemed formidable as it places quite a strain on the already very sick patient. The epigastric operation which was recommended by Larrie is simple and ensily performed and not nearly so much of a tax on the patient's resistance as the thoracic procedure. In the technique described by the authors an incision is made over the xiphoid process and the latter is resected. The peritoneum is then pushed back the diaphragm incised the overlying pericardium opened the puse evacuated and a soft rubber drain inserted.

In the case reported the pitient a woman twenty three years of age had had a left jugular thrombophlebitis secondary to otitis Following an operation on the mastoid she developed severe ab dominal pain dyspnœa and dullness in the chest Nothing was revealed by pleural puncture but later the cardiac duliness was found to be increased Paracentesis of the pericardium vielded 240 c cm of pus which on culture showed pneumococci Two more such punctures were made in the following ten days but no improvement was noted in the general condition Finally a pericardotomy was performed by the technique described and 400 c cm of pus were evacuated. The fever and general symptoms then abated gradually drainage was maintained abundantly for fifteen days but there after slowly subsided and two months after the operation it had stopped. The months later physical and roentgen ray examination failed to show any evidence of pleural or pericardial inflammation MICHAEL L MASON M D

#### SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Paolucc F A Herer logou Benga Hypernepi rom n a He m 1 Sac (lp f m t 1 b b ) i // l / g 7

The patient whose case reported vas a youth eighten years of age who had an angumal herms on the left side for to vear. When the her alsa c vas opened its wall was found to be cone ed n it by little, tumors ranging in size from that of a millet seed to that of a lentil. Microscopice minatio of these tumors showed granulation its use. At ab mit the middle of the posterior all there was a sit yellow body about the site of a small let 1. O microscopic examination this tum. Tas found to hav the structure of the suprarenal all three livers of the cortex being reporter tel.

The case shot is that there may be abe ant up a renal bodies in organs of it ues related embryologically to suprarenal tissue and that they may form true tumors. The tumors may be benign as in this case of malignant. Viv. (VIV.) M.D.

Babcock W. W. The Ideal in He no rhaphy a New Method Efficient fo Deet and Indirect Inguenal He nia S & C - Ob t o 1 534

A normal incision for figural hermia; one hich pisses trans erely difference the nt final; giral fing from a point jut thin the semilunar linto a point slightly eyten lito Poupart. I me t

The thinnest an! eakest no tio of the external oblique muscle lie over the inguinal ca al If the fibers are separated directly e the canal th edge of the flap or the part best pp ted in the closure all he the eakest hich mak best mechanical closure of ove lapping edge external obliq e hould be carefully split by a calpel from s thout in a d bets een the th est an I mo t videly sepa ated fibers that are found o er the hermal canal The oute surface of the external oblique should not be freed from adhe ent fasc a and nut tent ve sel but the under surface should be freely separated by blunt li section ir m the underlying internal oblique muscle a d from the inner anterio layer of the sheath of the ectu to the m dline

The hermal sac hould be approached from with out in vard form showed on via d in the canal and near the intern 1 ring. The cord should not be rar de and e plored po tenroly. If the sac i n t promptly found by retracting the internal oblique and trans ersal upina I and out ard the peri toneum ju t me ial to the internal ring should be evon ed and onened and the figer mitroduced to

exam ne for any other sac or eakness Tran pl n tation of the spermat c cord 1 not e sential If the cord left alone most of the postoperative complica tion in the scrotum ill be avoided

The hermal sac should be eliminated especially its funnel like mouth and the neck of the sac should be transplanted bein do a part of the abdominal will that trong and thick too dehometric test its

entirely effic ent for the deep closure

Strength in the un on of the layer of the abdom roal all come from the fib ous apponeurotic erga so is an I not from the uture of ed m sele Belo the chief pp t to be obtained from I ouga ts ligament it hel ing edge a d the dense fibrors c e gof the pub abo ean I internally I on the conjoine I te d the fib ous n cr layer of the a to or sh at hof th rectus and the external oblique

Cl we f Hes elbach's tria gle the most trouble omene a feaknes fone by uniting the lateral edge of the inner layer of the anter o sheath of the rectut the lene fib ou co ering of the pecten

ı nubi The tp of the he mo haphy are described in letail and ho n by illu trat on 1 th ck pai s t apped ove the u I and supported by a firm spica bandage. The pica baid ge should not com ores the ab lomen abo e the le el of the liace et Children and young robust ad its are kept fit n b df r ten lavs a dm ddle aged an I senile pat ents poo muscula and n I those with much fal aponeurot c devel pment are k pt in bcd for eight cen days A a rule th patient la es the hospital fr m fourte to t enty one la after the opera tion He : then astructed to repo tweekly or he ever the pica becomes loo e to avo facili e ork fr six seeks and to vid lift g for three mo th At the e d f three mo the he s perm tted to do full

The authorbel e that a her rrhaph, properle pef med and follor d by puma y union y il not break dun ler any ordin y stes applied later than sycek after our tion

R BE TM G IL MD

#### GASTRO INTESTINAL TRACT

Rit o M and Welss S Phy o t gmi ea an Ad in Gast o Inte tin I Ro ntg n Ray D g

I the centgen e am at note the gastro I ts tund tra t by means of the opace meal difficulties e at time encount red in the interpretatin of fi dings bec u e of absence or sluggsh e s of pei stal 1 and poo tone or spasm \ d ug or mechan ical method \( \) he h would o ercome the c con fine would therefore be \( f \) g est a 1 time. At \( p \) \( \) e.

and massage have been used but with only partial

In their attempts to find a more satisfactory means of producing the desired effects the authors carried out experiments with physostigmine. The effort was made to throw light particularly on the following problems (1) the behavior of the various por tions of the alimentary canal under the effect of physostigmine (2) the duration of the effect exerted by the drug on the stomach and intestines (3) the optimal dosage for use as an aid in the roentgen diagnosis of lesions of the gastro intestinal tract (4) the comparative effects of the oral and subcutaneous administration of the drug and (5) the action of the drug in the presence of various pathological conditions in volving the gastro intestinal tract

Observations were made both on animals and on human beings and the procedures used and the re

sults obtained are reported in detail

It was found that physostigmine is a valuable agent for increasing peristals heightening the

agent for increasing peristalsis heightening the tonus of the alimentary canal and overcoming spasm of the stomach. The desired results may be produced without dangerous toxic manifestations Atropine is an antidote which offsets any untoward symptoms which may occasionally develop. The effects of the drug are practically the same after its oral and its subcutaneous administration. The optimal dose appears to be 1/25 gr given orally. The effect of this dose is sufficiently prolonged to permit adequate roentgenoscopy and the making of roent genograms The drug may be used as a diagnostic aid without interference with the routine roentgen ray studies of the alimentar; canal In cases of peptic ulcer carcinoma of the stomach and marked atonicity it was found of great assistance in showing the site and extent of the lesion. In several doubtful cases it was a valuable aid in rul ing out the presence of a pathological process

The contra indications to the use of physostig mine are the presence of an inflammatory process such as appendicutis or pentonitis severe cardiac disease pregnancy and intestinal obstruction

ADOLPH HARTUNG M D

Ivy A G Droegemueller E H and Mcyer J L The Effect of Experimental Pyloric Stenosis on Gastric Secretion | 1rch I t Med | 1927 | 1 434

The authors studied the effect of pyloric obstruction on gastric secretion in twelve dogs. In all of the animals a Pawlow pouch was made. Stenosis was produced by forming a band about the pyloric application. The degree of stenosis obtained was ascertained by determining fluoroscopically the emptying time before and after the production of the stenosis. The experiments showed that at first there is a decrease of gastric sccretion following pyloric obstruction. In four of the dogs pyloric stenosis caused a hypernormal secretion but not an actifity.

This finding confirms the observations of Ham bruger and I riedman that in some cases experi mental pyloric obstruction causes a hypernormal secretion of gastric juice The Pawlow pouches must reflect the secretory activity of the stomach

The authors explain the effect of pyloric stenosis as follows

r The gastric retention prolongs mechanical dis

tention and chemical contact

2 The more complete the hydrolysis in the stomach the greater is the effect of the chivme in the intestine and the more easily are the hydrolytic products in the chyme digested by the pancreatic juice. As a result, the intestinal phase of gastric secretion is automented.

3 As the chyme is more acid more acid stimu lation of gastric secretion results and more pan

creatic ruice is secreted

4 The slow ejection of chyme from the stomach prolongs the contact in the intestine. The gastric factors are more important than the intestinal. The stenoiss also increases the irritability of the local secretory mechanism in the stomach.

Very striking findings are marked hypertrophy and dilatation of the stomach

HERMAN H HUBER M D

Paber k Chronic Gastritis Its Relation to Achylin and Ulcer Lancet 1927 cc in 90

The stomach may be injured by toxic agents in the blood stream and by agents acting directly on the mucous membrane. The pathological phenomena of gastrits are of two kinds. (r) disturbances of secretion resulting from diffuse lesions of the glandular parenchyma and (2) surface lesions crosions and ulcerations.

The origin of achylia must therefore be sought in gastritis and that of juxtapyloric ulcers in pyloric gastritis

Samuel Kaiin M D

Andresen A F R The Treatment of Gastrle Hæmorrhage J 1m M 1ss 1927 lvxviv 1397

The treatment of gastric hæmorrhage is based on the following principles

Enforced rest -physical mental and gastric
 Measures favoring coagulation of the blood at

the site of the hamorrhage

3 Cautious restoration of the blood volume 4 The treatment or prevention of shock

5 The use of a soothing non-stimulating diet which combines readily with the gastric juice satisfies thest and favors consulation

fies thirst and favors coagulation

6 A complete study of the patient to determine the cause of the hamorrhage in order that suitable

treatment may be instituted
7 The avoidance of surgery during or soon after
the hamorrhage Samuel Kaiin M D

Muson J T Peptle Ulcer Vortlucst Wed 1927

In 500 cases with gastric symptoms a diagnosis of organic lesion of the stomach or duodenum was made in r in every 7. Of those believed to be cases of gastric or duodenal ulcer only 1 in 3 was operated.

up on The operative group comprised 3 cases of gastric ulcer and by cas s of duodenal ulcer

In the e to4 cases tog operations a ere performed - Horsley 4 linney 1 Jud l and 3 Polya Baflour operations 10 exc ion and has ga tro enterosto mis The results of the Helev prations were good and those of the Imney Loly Baflour a d Juld operations and of the eye in were satisfact to In the cases treated by east ntero to ny there were 4 deaths in the ho pital , late death and to un satisfactory re ult (I) II I DuB

Dual P Tielit Plyed by Infe tion n tle De clopme it of Certain Ga t oduodenal Ulcers (Lprthpttallifnenlidalc l utrldl) t ktrld 1) tiila 97 1

The author believes that afection is pre- at in about one third of the cale of gat olundenal ulcer This is a secordary nfection grafted on an ulcer thich tas primarily title. It can be demostrated by biological examination if the patient or microscopic examination of the ulcer t ue

The clinical signs of infected ulc r are febrile ne iod particularly in the begin ing uth an a sociate i sp c al j eriga tric eaction local tens or of the aldom n l muscle er\ nten e p i fre sure over the involved region continu u si ontane sus pain in teal t per of caf pain and læmatemesi ith small cl ts

The biol icil sign include a h pe leucocyto and a p lynucleosi la intra lerm I te a in the bacteria toun i in ga tre ulcers g e ap ti e c sult n fr m t venty f ur to f rive sith ur

Microsco, ic e min a on 1 the ul er sho sa m e or le marke I sign of a flammata a a about a third of the c e Cultures y ld strep to con or enterococc

Infection is f great n p rtan e r the urgical treatment f the le in 1 imited re ect r 1 the stomach has a higher mort ht thin exten ve resection or gat opyl rect my because the tem r may be person in inited to us where the latte are ion ut I the inmited n of nf cti n

I the 1th r onini n praton fo g stric ulcer should not be performed in the prior of When nict n is ugge tel je the accin ton houlded no titheh ficaltet b com normal If an em rgenc ope tion t nec state 11 con plication it hould be exten enough to be perl med out I the infected zone

L ten i e re ect on the be ti ph lact c tr at n ent agas st recurrence of uter o the delor pt ulcer In the auth r ment of p toperati on n on the prol lactic action of e tin te e s'tons i due iot t upp e on of the g inc zone which secut h I chi ric and a Haber r think lut t em al l the affame i persulcerou zone \ll op r tions l r gastr c ulcer shoull be preced it all foll ed by specific ac na t on with strept c ec or ite o occi

LUDRE G M R AN M D

Ve bycke J R Jr Conserv tive Ulcer S & ry
H st J J S The Ct o ce of Ope ations for Pepte Uler 5 / 1/ / 19 7 751

VERBRACKE give the alvantag of gastric esec tion for ulcer as (r) the removal of the entire ulce hearing re (2) the production of anacidity and (3) the prevention of recurrences. Its lisadiantages are (1) a mortility that is priably three times s great as that of gastro enterostomy when the resection s pe formed by an exp rt surgeon an I probably five times as great v hen it is performed by the aver age operator and ( ) the creation of a condition that 15 even more u physiological than that created by ga tro enterost my

In Verbrycke's case every duodenal ulcer that is incomplicated an I not of too long duration; first t eate f medically. If the ulcer is of many year

duration if it has recurred after me lical treatment r f t is complicated by stenos s hamorrhage or pe iduodenit a combination of m dical and sug caf treatment s given. On ration is p rformed and the m dical treatment is carried out postoperativel Extensive operati e proce lures are not nece sars In the majority of c se gastro entero tomy or same fo m of gastrodup lenostomy followed by medical treatment with the nations in bed for three week a d by mifder regulatory me lical treatment for se e al month has re ulte i in permanent cure i roy de i a sociate i foci of infect on vere el minate i

If sufficient kill is exercised in both the med cal nd surgical treatment of duo lenal ulcer an infi oth treatments are combine I about 9 per c tof th ca es can be permanently cured thout a m tila ing operation. It is not necessary for both parts of the treatment to be car it I out by the same perso The time to past when the general su geon can cons tentiously car v through a tr atm nt for ulcer If

the ga tro enterologist him elf lo s rot oper te as u ually the ca e he hould have e erathing except the are of the a uniturned ver to him fter th art post perat e inv and should ther ie h me lic I traime t for ul er followed by the u ual regulat ry treatm at for ever I month

Horses tate that even after operation medical treatme t shoul i be continue i for t least several m nths n rder to g the gastro t st nal tract

f ll t m to become e adjuste ! If ag tie ul er : tuate i in the pylo ic p rtion

f the toma h here gastr c peptic ulcers u ually the be t peration occur p rt al & strectoms The ca u ually be lone ecorl ng to the mo linea tion of the Billroth I technique v hich Ho sley has be n u mg for bout thr ves a modific tion in th h th les er cur tie of the tomach un ted alo g the upper bo der f the duo lenum and the duodenal tump is flared op n

S c January 1 19 4 Horsles has done fourtee pa t I gastrectomie f r pept c ulcer f Aind ith ut a leath In all except one of the e e e th tomach sumited to the duodenum In the o e e e ption the duo i num a s exten els

diseased that a posterior Polya was done. In three cases the stump of the stomach was united to the side of the duodenum according to the Finney Haberer technique. In ten cases the operation was performed according to the modified Billroth I tech mone described. It seems better to mobilize the stomach and suture it to the end of the duodenum than to do an extensive mobilization of the duo denum where there are many important structures and the nerve supply is abundant and complicated Usually the same type of operation can be done also when the ulcer is situated at about the middle of the stomach If the lesion is along the lesser curvature of the middle of the stomach and if it is not large a \ shaped section may be removed but a mid gastric or sleeve resection of the stomach gives a better functional re ult than a \ shaped resection particularly if the latter is rather extensive. Unless the lesion is too near the cardiac end of the stomach Horsley is more and more inclined to do a partial gastrectomy after the modified Billroth I operation when resection is indicated for gastric ulcer

If a gastric ulcer is removed by local excision a pyloroplasty should be done in addition to give physiological rest by lessening the resistance at the pylorus If for any reason the modified Billroth I occration cannot be done the Hofmester type of

Billroth II operation is satisfactory

In cases of duodenal ulcer the problem is quite different. If the ulcer is small not infiltrating and near the pylorus a pyloroplasty with excision of the ulcer is the ideal operation. In the pyloropla tv that Horsley has been performing for several years the incision should never be made further than I in anto the duodenum but should always be at least twice as long in the stomach as in the duodenum In this manner the muscle fibers of the strong pylonic can'l which is 1 4 in in length are divided and physiological rest is given the tissues in this neigh borhood In cases of marked pylorospasm it may be well in addition to follow the procedure of Hughson severing the branches of the vagus nerve along the les er curvature of the stomach as close to the asophagus is possible

If the peptic ulcer'is further down than the first inch it may be excised as Judd advocates and sutured in a trin verse incision. A small pyloro plasty to weaken the pyloric end of the gastric muscles my be done in Judition but is not always.

necessary

When a luudenal ulcer is extensive and when there are marked adhesion a pyloroplasty of the type described is contra indicated. This pyloroplasty is contra in licated also when there is a strong stenosis but may be used in a very narrow band of stenosis. The pyloroplasty of lanney is more applicable in the presence of adhesions or stenosis but when these are very marked suturing of the diseased tissue is unsatisfactory and a posterior gastro enterostomy will doubtless be better. The held for this physiological pyloroplasty i comparatively limited though definite. Horsely is perform

ing the operation in fewer cases now than formerly Since he has ceased suturing the pyloric mucosa his results have been much more satisfactor. If there is marked stenosis or an extensive duodenal ulcer or if there are numerous adhesions a posterior gastro enterostomy is satisfactor. Horslev combines this operation with occlusion of the stomach effected by passing a stout langaroo tendon around the pyloric and tying it just snugly enough to close the lumen but not so tightly as to cause permanent whitening of the tissue

In peptic ulcer of the jejunum the best treatment is partial gastrectomy with removal of a considerable portion of the acid secreting part of the stom ach. There seems to be no reason for merely existing the ulcer and re establishing the gastro enter ostomy.

In conclusion Horslev states that the selection of the proper operation for peptic ulcer depends upon a cireful study of the case and of the condition found when the abdomen is opened. In all opera tive cases postoperative medical treatment should be given by an internist or gastro enterologist for several months. CARL R STEINLA WID

Butler H B A Case of Complete Gastrectomy for Chronic Ulcer with Observations on the Effect of the Loss of the Stomach on the Physiology of Digestion in Man B t J S g 102 v 310

The patient whose case is reported was a man 42 years of age who had been given medical treatment for a chronic gastric ulcer of 4 years duration. He appeared to make a complete recovery but 8 months later the symptoms recurred and when medical treatment was again instituted it failed to give relief

On his admission to the hospital the patient was each, and emacated and the reentgen ray reveiled an ulcerous crater high up on the stomach. No hour glass construction stenosis or obstruction was found. The findings of the blood examination were crythrocytes 3 200 000 homoglobin 75 per cent color moder. I eucocytes 6 500 [pol] morpho nuclears 75 per cent small lymphocytes 24 per cent large lymphocytes oper cent cosinophiles 20 per cent). The fractional test meal gave low values for both free and combined acid.

Because of the possibility of carcinoma and the lack of response to medical treatment surgical treatment was regarded as advisable. Operation reverled a large indurated uleer high up on the postenor wall of the stomach near the cardia. As the condition seemed to be carcinomatous the entire stomach was resected and an mastoomo is was made between the cosphagus and jejunum by. Moy nihan a technique.

I athological examination proved the lesion to be a chronic ulcer with catarrilal changes in the mucosa The patient made a good recovery and 4 months

later had gained nearly 4 lbs and was feeling well He was advised to have his teeth extracted in order to remove all possible foci of infection and was put on I dr of dilute hydrochloric acid 3 times a day to remove the causes (infection and achlorhydria) predisposing to the addisonian anæmia which may

occur after complete gastrectomy

Six month after the operation he was examined with regard to the funct in of the inter in al canal. The stool showed a slight excess of fat (as split fat) but was other ise normal. The jeunal loop which was used for the anastomosis had dilated and appeared to have taken on the function of the stom ach to a certain extent that is it held food for a considerable length of time. I ood taken into the jeunum set up a brisk reaction in theil ace ils. The contents of the jeunum shot ed a few colonies of bacillus coll steptococci and staphylococci. The bowels moved without catharities once daily and the patient had normal hug and appet te.

The findings of the blood exam nat on were erythrocytes 5 433 000 harmoglob 00 per cent color index 09 leucocyte 7 500 (polym rth nuclears 67 per cent small lymphocyte 0 per cent large lymphocytes per cent eosinophiles

per cent transitionals per cent)
Mic AE L MAS V M D

Perdoux and Cadenat Acute Intussusception n the Adult (I g t t t l h lad lt ) B ll t e h t d l 9 7 l 9 8

The case reported vas that of a oman gover of age who as eiged ith udden abdom it has n about one hour after a light meal. The e a sit induced wom it g and Ithough the patient had been constipated for several days peceding the att ch. ac pious a equation of the bovelsoccure! Ther after neither facal matter nor gas wa pa sed per return. The general cond ton remained g of

At examination an el ngated mass vas felt in the left il ac fossa. This disappeared from time to time and was thought to be a spast c sigmod. Ice as

applied to the abdomen

"The next day the general condition was still good but no stool had been passed and the mass as constant A diagnoss of olvulus vis made. On the patient's admi. Ion to the hospital a vaginal e am ination revealed a pelvic mas. Which seemed to be an ovariant cyst to sted in its pedicle.

At operation an intussusception of the mall box of was found near the termination of the ileum Resection followed by side to side anastomosi mas done. Yo cause for the condition (timor in flammation or Meckels diverticulum) could be found Except for a history of salpmgitt no h tors of previous abdominal truble could be obtained. Such cases are usually not diagnosed before open tion.

Judd E S Duodenal Ulcer \ t I t M d 19

During the last few years the author has bee more and more impre sed by the fact that duodenal and gastric ulcer are two separate and dit et lesions. In a certain proportion of cases the two lesions occur simultaneously. In about the same proportion gast is connected to the same proportion gast is connected and ulter occur simultaneously, but these two lesions are entirely different. It is not surprising that we have falled into the habit of considerin luodental and gaster ulcer together as it is only recently that the identity of duodenal ulcer has been recome zel.

Some vears ago Judd noted that duode alles ons are not all of the same ulcer type. On further in vestigation he found that there are at least two distinct lessons either one of v hich may be found in cuses v than hi tory of chronic pept culer. The fit i the true ulcer high i characterized by congestin and tippling of the surface of the sero a

ith the formation of more or le's scar tissue ad hessons and deformity of the duodenum When the intest e is opened a crater ulcer's scen. The second type of lesion called duodenti or sub mucous ulcer is one in which there is congestion and st pplin of the seroes but little or not duration a laptation of the duodenum is negative and when the bowel i opened a le ion of the muco a can other bowled or at most only one or more superficial.

small mucosal abrasions are revealed

The indications for ope ation in cases of chron c dyspepsia due to ulcer of the duodenum depend upon several facto s The length of t me the symp toms ha e been noted should be considered if the symptoms have been present for a long time and especially if the patient ha had several period of good dietary manag ment ithout relief operation should not be postponed. If the symptoms have been present for only a short time non surgeal treatment hould be instituted at o ce as there i plenty of evidence to show that dietary manage ment started bef re the condition becomes chronic may esult a complete relief of symptoms and the h aling of the ulcer The age of the pat ent should be taken into consideration a young person i ith a short history and mild symptoms should be placed on a dietary regimen for a considerable pe iod la a y case the se crity of the symptoms will help to dete mine the plan to follow hecause if there is a eonsta t te dency to ard perforation bleeding of se ere gastric disturbances not quickly releved by diet operation is indicated. In all cases of duodenal ulcer diet sh uld be tried before operation is con a mistake ho e er to conti ue s dered It diet ry treatme t if nothin i being accomplished by it a d if the symptoms return following the least indiscretion

under the service of the p tents with duodead under ho earler the May of thin cundergo operation Many duodead ulcers even though chro is rus as hel uncomplected cour es to that the patient may be treated medically with the idea of e entually reso ting to operat on if the result of the non surgical treatment of the co-operation of the patient is uns tisfactory Duodean ulcer is a common I sion. Between 1 oo and 1 500 patients thus affected are seen in the Mayo Clinic every year.

In Judd's opinion the present enthusirism for resecting the stomach for duodenil ulcer will not last very long. Gastro enterostomy is not an entirely satisfactory procedure because in a certain per centage of cases it is followed by secondary ulcers. The best type of operation for duodenal ulcer is one that removes the ulcer and places the pyloric sohuncter at rest.

Leriche R The Result After Fourteen Years of a Right Hemicolectomy for Frectl Stasis (t & ultration of the Colombia of the Col

Leriche reports the following case to emphasize a complication of laterolateral anastomosis in colect town and the small value of colectomy for facal stasis

The patient was a woman aged twenty nine years who had had digestive disturbances for seven years and was nervous and poorly nourshed. She complained especially of discomfort in the right ilite fossa. Physical examination reveiled a flaceid gurgling excum. On roentgenoscopy the stomach was seen to be atonic and without retention.

At operation the excum was found to be large and flaccid and covered by a typical peritoceal membrine extending to the right flexure. The appendix was removed and the excum decreased by half by plication and fixed to the abdominal wall

After the operation the patient continued to complain but grained 8 kilos. Nine months later she reported marked epigastric discomfort and the X-ray showed the bismuth meal to be retained in the execum for twenty four hours. At a second operation the greatly distended execum the ascend ing colon and the transverse colon were resected and a laterolateral ileosigmoidostomy with a button was done. Later an intraperitoneral abscess was drained through a small incision lateral to the healed operative scar. After one month the patient returned bome greatly benefited.

Ten years later she reported that for nne years she had suffered from constipation and occasional attacks of acute enteritis with diarrhora graping and burning and for six years had had a continuous painful sensation in the right flank with a prominence under the abdominal wall that could be reduced by gentle massage On \(^{2}\) ay examination bismuth did not enter and the left colon was not distended

Operation under spinal massthesia reveiled in the right liac fossa a gaseous pocket as large as a toy balloon covered by what appeared to be reorgenited membrane with prafilel vessels. The membrane was lifted away without difficulty. The gas pocket was the terminal cul de sic of the lateral anastomosed loop of small intestine which had distended greatly and contained only grs. The gas pocket vas incised and the sac resected.

The patient recovered from the operation and was somewhat relieved but constipation digestive

disturbances and neurasthenia persisted Three years later her condition was reported unchanged Before 1914 Leriche performed hemicolectomy

pheature and mastomoses of different types for stasis but failed to obtain a successful result in any case in which the intestinal disturbance was not purely mechanical. All of the patients who were followed slowly relapsed. After pheature of the execum the ascending and transverse colon dilated Antiperistal is destroyed the results of an anastomosis or a colectomy.

Lentche advises leaving such cases alone until it has been determined why the mesentery is not fas teoed why the intestine sometimes distends with out contracting and what digestive gland insufficiency or other factors regulate such phenomena. He believes that faceal stasis is a secondary functional disease the cruse of which is outside the intestinal wall Walter C BURKET M D

Botreu Roussel and Cadenat Heo Heal Intus susception in the Adult Caused by a Sub mucous Fibroleiomyoma Resection and End to End Arristomosis Cure (In agnation Heo ilcide de I adulte pro luite par un fil ro leio myome us muqueu gueri o ) Bull et mem Soc nat de 11 1927 lui 921

The case reported in this article is the seventh case of intussusception in the adult reported by Botreau Roussel. The patient a min 23 years of age was sent to the hospital with the diagnosis of intestinal obstruction. He appeared toxic and had been suffering from abdominal pain for 5 days, during which time neither gas nor freal matter had been passed. The abdomen was soft and without signs of fluid. On the right side slight penstaltic movements were noted and a semi-soft tumor appeared and disappeared from time to time. A diagnosis of ileo ileal intussisception was made.

At operation a 40 cm portion of the lower ilcum was found to be invaginated but was easily dis engaged. A tumor the size of a duck egg was felt. The intestines were violently peristaltic and the invagination was reproduced. The is in segment of bowel involved by the tumor was resected and an end to end anasstomosis performed.

The postoperative course was uneventful. The ovoid tumor which measured o by 6 cm and completely filled the lumen of the bowel was attached by a circular base to the contra mesenteric border of the intestine. Instological study showed it to be 1 fibroleomy oma

It was subsequently learned from the patient that he had had vague intermittent intestinal complaints for a year before the operation and uttacks of con stipation alternating with diarrhea for about 3 months

I spomath appear to be the most common benign tumors of the small intestine \circ tin frequency are the myomata Most of them are submucous but some are subserous. The subserous tumors may never cause symptoms until they attain considerable

size Submucous tumors gi e rise to vague di speptie symptoms ill defined abdominil pain distention alterniting periods of constitution and diarrhoza and sometimes harmorrhage. These lenigh tumors are never diagnosed before operation.

cum J 1 U 1 3 Volumes of the execution of the case moceur only in the p esence of some condition the to defect e de eliment such as persistence of the mesenter for the execution and ascending colon tree to loate in this fact to of the execution in left himself even to the large it to the behind the up reserved to the in the large it to the behind the up reserved exessels and duoden in the mese to the fit mesent e from an analysis of the mesent e from an analysis of the mesent exessels and duoden in the mese to the mesent exessels and duoden in the mese to the mesent exessels and duoden in the mese to the mesent exessels and duoden in the mese to the mesent execution of the mesent execution of

of the cacum unle th live revered of the act of the larger is to the behalf the up research excessed and duoden n the mess the fithe mall intesting forming at uself hough which the transcribe colon passes in lipe the cool of the production of the decrease of t

In the majority forses the culti-occur butten young add this the per doff get it be in activity. It is more community mad than nit me Overesting and other detet cinds creation e jeculity when followed by ever see play a map into the late to gy. Whom all per lather active the by abuse of the diget is effectively and man er five of per control into it is butter than a mal man er five of bp cent of into the late that active is the seed of the category.

The sympt ms my be cut which there is In general they are the simptom finet util ob truction partial or complete. The pushol gial changes found at ope tion of autops a from simple to bout complete gangre it by the till be as for the e change is the biruction of the housel lume and the turns of the housel lume and the turns of the state.

MICT L VA \ M D

Pratt J P and Falls L S Vol ulus of the Cae

Ra aboni G Empyema in Auto Amputated Append ces After Appendectomy (Emp mi appedels p i pp lette 1 app ndc to mptat 1 1 1 1 1 d 1t 9 7 34

The author reports the cases of three patients upon whom he operated after a considerable interval of time following an attack of acute appendix and after the patients seemed to have recover a completely. In all three cases he found that auto amputation of the appendy what taken place and

pu ha I collecte I in the closed stump.

He thinks it very probable that these s ppu a
ton ere a continuation in a latent for mot the
epic process hich had cause! The outcomputation of the appendix. Though there as no closed
sgmt in leate that the emprema of the stump vas
d mg. Wharm he so of the opin on that such suppurtt in sare lage ous is they may uptue and
cau e a diffuse or recurse il dipe thomis. The c
fre nh n perition shows auto imputation of an
ipe h be term e the stump.

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

S II A M C en C II and Ro ntree L G
D sea s f ti l r VII Further St d
in L pe mentil Obst uct e Jaundie i k
I I V I j l 4

That I epries the article sere made on the ends. The article sere made on the ends of the

varied with the duration of the obstruction. With obstruction lasting thirty days or longer there was no immediate change in the degree of bilirubinremia after the relief of the obstruction. Spontaneous closing of the fistuly made it possible to study the effect of long continued draining in such cases.

The changes in the bromsulphalein test were qual itatively the same as tho e previously reported for the phenoltetrachlorphthalem test Retention of bromsulphalein in the blood stream of the dogs was not observed until the second or third day following ligation of the common bile duct. The development of distinct retention usually coincide I with the first definite appearance of bilirubin in the blood both occurring from forty eight to seventy two hours after the operation. The amount of retention gradually increased the maximal value being reached the second week. Thereafter the degree to which the bromsulphalein was retained in the blood stream fluctured somewhat but in general there was marke I and persistent retention of the die

When the gall bludder was removed at the time of the light on of the common bile luct retention of the die was found within twents four hours after the operation. Here too a close parallelism with the degree of retuntion of bile was observed. The subsequent course of the two series of animal was identical. Retention of the die persisted following cholecy tentero tomy, and re establishment of bili.

ary dramage

The bile acids in the blood increased markedly ofter the production of biliary obstruction. Following lightion of the common bile duct alone this increase was not marked until the second or thir late. A liximal values were attuined about the second week after obstruction. When the gall bilder a removed at the time of ligation of the common duct the changes in the bile and reading leveloped much more rapidly. The amount of retention in the blood gradually became greater maximal value being attained at the end of the first week. Thereafter there was a gradual return toward normal.

The authors had previously measured the normal rate of remo all of injected bile acids from the blood. Compari on of the rates before and after ligation of the common duct showed that bile acid were not only markedly increased by this measure but were all o removed at a much slower rate than

under normal conditions

In d cu sing their results the authors point out that a decrea e in the concentration of himitibin in the blood (in the later stage) is not due to increased renal climination since less blurbin i excreted in the urine in obstructive jaundice. They are of the opinion that the production of bilirubin is decreased in consequence of prolonged obstructive and refer to the climical analogy provided by obstructive jaundice of short direction (as from pancreatic car cinoma) and of long duration (as from stone in the common duct)

The authors agree with other investigators that only a small friction of the normal amount of bile acids is synthesized by animals with obstructive jaundice. When bile acids are injected after obstruction of the normal pathway of exerction they leave the blood at a much slower rate than normally

In all of the dogs that survived more than a few weeks bibars cirrhosis developed. Attempts made to relieve the bilary obstruction by cholecysten terostoms after the first month brought no improvement in the bromsulphalem test of function. The crum bilarubin was little affected by this operation but the content of bile acids rapidly returned toward normal when the obstruction was relieved.

The authors discuss the ascites manifested by two of their animal and cite various explanations of the portal obstruction. The ascites is related to the wide preal proliferation of connective it sue around the bihary radicle in the portal spaces. The same pathological sequence is observed in main.

Whipple A O Side Tracking Operations for Bile Duct Obstruction 1: 5: 9 lvxv 540

In ca es of irremovable duct ob truction or irreparable luct injury pilliation may be obtained by a sile tracking operation to carry the bile into the upper ga tro intestinal tract. The main types of kesions in which such a procedure is indicated are (1) new growths of the pancreas or of the common or hepatic duct. () chronic inflammatory lesion of the pancreas and (3) stenosis of the ducts following trauma or inflammation. The following operative method have given good results.

1 Anastomosis between the gall bladder and duodenum or stomach. This is the casiest and mot t satisfactory of all procedures provided the cystic duct is patent and the obstruction is in the common duct below its juncture with the cystic duct. Ir carcinoma it gives temporary relief and in chronic pancreatitis it results in remarkable improvement.

for mana years

2 Some form of anastomo is between the com mon or hepatic duct and the upper gastro intestinal tract Choledocho entero tomy or henatico-enteros tomy or duct reconstruction is to be employed when the gall bladder is ab ent or the obstruction is above the level of the cystic duct. The lesions requiring these procedures are usually duct stenoses due to injury during cholecy stectomy or the result of chole dochitis If operative injury to the duct is imme diately recognized end to end anastomosis is usual ly easy and stenosis seldom occurs When such an injury is not recognized at once and there is no biling fistula a suture anastomosis between the dis tended duct and the duodenum without the use of a tube is the procedure of choice. If a tube must be used only a partial suture being feasible the tube should not be sutured into the line of anastomosis if it projects for any distance into the duodenum Attempts to reconstruct a passage between the he patic duct and the duodenum by means of tubes are seldom permanently satisfactory

If the patient has an old biliary fistula and especially if previous attempts to re establish a bile passage have been made the possibility of implanting the external opening of the fistula into the stomach and duodenum must be considered. This has been done suc establly in a number of cases Hepato enterostomy in which the duodenum or jejunum is sutured to an inci ion or cautery pincture of the first production of the first patients.

Whipple reports several cases of side tracking operations

CHE TER L CREAN M.D.

Barnes I L. Acute Pancreatiti Due to a Gall Stone Ob trueting tl e Duet of Wirsung Re po t of a Case T St te J M 92 33

When there is a common outlet for the bile and pancreatic ducts acute pancreatitis may be brought on hy blockage of the duct of Wirsung allowing the passage of infected bile to the pancreas. It may be caused also by simple obstruction of the pancreatic outlet but under these circumstances the condition is probably more of a chemical nature. Other routes of infection of the pancreas a e the blood stream and lymph channels but the latter is questionable.

The author reports a case in v hich a gall stone obstructed a duct common to the here and pancreas and caused a flow of bile into the pancreas which resulted in rapid pancreatic necro is. The patient suffered severely from acute abdominal asymptoms but recovered after a laparotomy and the later discharge of a gall stone through the drainage opening.

MARCUS H HO ART M D

#### MISCELLANEOUS

Hertzle A E Acute Abdominal Disasters Am J St g 19 7 11 346

Acute abdominal desasters requiring surgical in terrention may be divided into two groups (i) the perforative group includin desastes (free dividence) and including the second appendix gall bladder and intestines and (i) the hombor group in which there is no solution of continuity of the visceral vall resulting in an acute general perstonits such as obtains in the first group but there is night to the wall due to disturbance of the circulation. The thrombotic group includes such conditions as acute pancreatitis intestinal obstruction thrombosis of the mescantery timers with it is at the properties of the circulation.

In the perforative group of conditions the initial pain is due to the irritation of the bowel will and painted pertoneum by the escaped contents. The peritorial programs have a content appears, but raint then dominates the preture. In the thrombotic group, the pains due to the presence of clotted blood it is the pain of dying tissue. Profound constitutional diurhance is the chief factor in pancreatity a intest nall obstruction and any injury in which extravastated blood plays a part. In ge eral, the point of maximal pain at the outset indicates the sire of the disease.

Abdom nal crises must be differentiated from ettra abdominal affections and milder intrap in toneal affections. The best clinical observation possible must be suppleme ted by observations made after the 'bldomen' is open

CHARLES F DLBO S M D

#### GYNECOLOGY

#### UTERUS

Haselhorst G Is Hysterography a Safe Method of Examination? (Ist die Hysterographie eine un gesaehrliche Unter uchungsmethode?) Zitralbl f Graek 197 h 1821

The belief that hysterosalpingography is not an entirely harmless procedure has been supported by two cases recently seen by the author case was that of a twenty two year old girl with retroflerion of the uterus and a tumor the size of a child's head. At the time of the patient's admission to the hospital her temperature was 37 6 degrees C and a smear from the cervix and urethra was nega-Following an examination in tive for gonocoeci which the uterus was injected under light pressure and strict asensis with 40 per cent iodinin from a Luer syringe there was increasing abdominal pain with slight bleeding and an increase in the temper : ture to 30 7 degrees C Laparotomy disclosed a condition of aseptic irritation and a small quantity of exudate which on culture proved sterile

The second case was that of a woman twent two years old who came for artificial abortion in the second month of pregnancy. Within three days after hysterography the temperature rose to 3,98 degrees C. On the fifth day, there were hemorrhages and a fever of 40.5 degrees C. After the expulsion of a fetus 6 cm long and a foil smelling pheenta the temperature dropped to 3,7 degrees C. In sections of the tissue collections of Gram positive cocet and

bacilli were found

The author believes that the severe irritation in
the first patient and the abortion of the second were

due to the injection of iodipin

In conclusion the author states that latent foct and bacteria in the cervix uterus of tubes cannot be demonstrated with certainty in advance by any method as yet known ODENTIAL (G)

Keller R Unusual Forms of Parametrial Suppuration (Paramétrites suppures à évolution particulière) Gy écologie 1927 xx 1 387

The author reports seven cases of parametrial abscess

As a rule parametrial involvement develops early. During the first few days after delivery a vague infiltration may be palpated on one side of the uterus. This evolves into an abscess which is often voluminous and in which fluctuation is ensily detected. The formation of the abscess may be rapid but usually requires several weeks or months.

The elevation of temperature is usually moderate. When the infection is due to the bacillus coli there may be no fever at all. For some unexplained reason the lesion occurs more frequently on the

right than the left side. In five of the cases reviewed the ab cess was in intimate contact with the pelvic bones and tended to approach the iline crest

The complications included perforation of the bludder rectum and covolemoral joint. The per fortion into the covolemoral joint was first discovered at autopsy. In one case there was thrombosis of the pelvic veins about the abscess and the right femoral en.

If the c cases are treated reasonably early the prognosis is quite good although an average of four

months is needed for recovery

The treatment indicated is draining. The author always waits for the development of fluctuation. In the cases reviewed the abscess was opened by an abdominal massion. Apart 1 D1 (Rox W D.

Rigano Irrera D Three Cases of Sarcoma Decel oping in a Fibromyoma of the Body of the Uterus (Tre cas I sarc ma syluppato in fbro mioma del corpo dell utero) Ir h ital di chir 10 7 YUII 538

The author describes the hit fological pictures of three uterine sarcomata and supplements his description with photomicrographs. From these pictures and a review of the literature he concluded that the surcomata developed in hibromyomata. He believes that malignant degeneration of pic existing itsuse cell is not possible and that the sarcomata originated from rests of undifferentiated cells seat tered in the fibromyomata which were of the same kind as those that had given rise to the fibromyo mata and that under the influence of hyalinization or some unknown cruse these undifferentiated cells began to multiply indefinitely in an atypical way with destructive characteristics.

AUDREY G MORGAN M D

Bounct P Mulpighlan Cancer of the Body of the Uterus Probably Spread from Cancer of the Cervix (Cancer du corps uterin du type malpighien p opagation probable d un cancer du col) Lyon dr 1927 xxx 496

Challenging the assumption that cancerous in volvement of the cervix is invariably secondary to cancer of the body of the uterus. Bonnet reports the

following case

After metrorrhagia persisting for eleven days in a sixty two year old multipara a diagnosis of cervical cancer was made. Since there was no appreciable invasion of the parametrium the condition was decimed operable but at the last moment radium treatment was given instead. The clinical results were excellent for three months. At the end of that time renewed hamorrhages led the patient to insist upon operation. A preliminary digital examination

indicated a retracted infiltrated vagina invaled throughout by neoplastic granulations and ending in a cul des e in . Inch t was hiffcult to di trigui h the cervix. I ectal palpati in seemed to reve I the

location of the cer x better

A total colpohyste ect my a carel ut by the vaginal route Fo B nt t in himent the piece remo ed showed th tof the trute u the error end ed showed th tof the trute u the electroughout and a fourlish form ed the culd esciper iout in taken f the upper virem ty of the again a fracer rivall it peace? Further expension of univaion f the grade but he resisted in the collaboration of the grade but he resisted in the collaboration of the same and the collaboration of the collaboration of the same and the collaboration of the collaborati

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In such a tuly f the hitolog al malig cy index and on leult t as d finitely proved that a pr g scan l gi l the c e a signel t

o eof the f r l I gr up friral at The re ult obtain l by Br l : the g l g of care n ma by the leg e f c ll l firet to and in this to be or enoul n the tud of anaplasia d by Hupper and the author of cell ty hife entiat n d an play vere plotted The gr b h a em itably clo

relation to each other and to the histological malig

Schmitz concludes that the application of the Vays and ralum to cerncal care nome should be limited to in leations base listrictly on the chical groups and the histological maligiancy i der

III 14RD I MILLER M D

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Mot of the cae of cure noma of the uterer of nat Belle ue Hopital New York are nl need In spite of the fact the results obtained in 1 fit is case treated during the period from My, to 5 to Oct ber 956 have been gatfag O by to the circle ere treated by real tion.

The utto cte be fly the method employed in other chic and by their ratelogity is the Radum I stutter I and rathum is usefulone fill sting of rati. A Radumhemmet in Stekh Im larg ! e frailing are repeated at the also as need! The Vrss are of used. Set of Iraskfut emply chiefly the Vra sand ouplement the ratgent estiment this igledoe of r dum ge on trace allo Waste Eledange of ratum generated and the same and the same time. The same are the same time I rate and the same time I rate and the value of the same time I rate and the value of the same time I rate and the value of the same time I have been the value of the value of the same time I have been the same time I have been the value of value of the value of the value of value of

Rgulhi entl e plaed exte al abdom I lrak faluni t lot the \ray men in tin with the 1 al application of rad mit th crvi G et arst t e t the le on ith radium and thin perat Gunsett us sa metholism h t mla t th templo ed by Regaul At the State Ca c In titute in Buff lo adium i ap plied I cally though the vagina a 1 abdominally by I ch and \ ray the ipy i then applied to the p ly it th Memorial Ho pital let York the le ion i t e tel locally by bomb and rad um punc tuen I the pel i treated exter ally th radium p ck a I th \ ray It the Mayo Ch c radium an I the \ ray are u ed- adium in small repeated d sid the \ ) oc inally kelly a lm n
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intracer i ally and supplemented hen nece sary by ad impuncture. In the authornethod the local le ion at tak lirt to clar up fection in lith pel

tak I for t to cla up fection in time per trated t blick fit the lymphat I too meta tatic f The I calle ion thing en a sufficient dige t the poper time t cau e its complete di truction. In ad anced infect de 5 d ilv douching i done a I mild anti ept es are used freely Radiation is not begun until disinfection is complete and the general condition has been improved by dietetic and hygienic methods

A biopsy specimen is taken from all lesions as the author believes that no harm results when the specimen is removed from the ulcerated arca. Also in all cases thorough physical and \text{\text{\$1\$}} any examina tions of the chest spine and pelva are made

At the out et a definite plan of treatment is adopted This depends first upon whether only pulliation of the local or metastatic lesion is possi ble whether a recurrence is present in the vagina and whether the condition is in such an early stage

that a permanent cure is possible

In all cases deep \ ray therapy is used over the pelvis. The author discusses the do age in detail. The depth dose delivered to the lesion is 60 to 75 per cent. \ \(^1\) Sellevie Hospital owns no ridium it obtains emanation upon prescription for cases in which the histopathology the amount of involvement and the patency of the uterine canal are all favorable for the use of radium.

In the cases reviewed the most common lesion found was the pleviform epithelioma a transitional form between the basal and the squamous types

The dose varies according to the amount of local involvement from 4000 to 7000 me hrs. Lesions limite I to the cervix receive 4500 me hrs. half in the cervical canal and half in the vagina. The application use I is a modified form of the colpostat designed and used at the Curie Institute in Paris. One millimeter of platinum and 2 mm platinum screens are used respectively in the intrusterine and vaginal applicators. A thin sheet of aluminum is wrapped about the platinum. The technique of application and the variations in dosage are given in detail.

The irradition is continued for from four to seven days the applicators being removed cleaned and replaced daily. Fluids are given copiously to prevent radiation sickness. Codeine is administered if there is pain. Obstructing masses are treated with seeds or needles or are removed by endothermy the intra uterine irradiation being given liter. The patient is kept in bed during the treatment. If the temperature rises above 10 degrees I the irradiation is stopped temporarily

As this treatment was begun only two years ago it i still too soon to report the results but the author includes in his article several tables giving the

author includes in his article several tables giving the symptoms a description of the lesion the patient's present condition and the mortality. He summar izes the main points in his article as follows

I Carcinoma of the cervix is not operated upon at Bellevue Hospital

Biopsy is done in every case

3 The lesion is treated by (a) disinfection of the local area (b) \ ray therapy of the pelvis (c) radium therapy of the local lesion and (d) radium puncture and endothermic surgery when necessary

4 The do age varies with the histological nature and the extent of the lesion

5 The treatment is given at once with small

doses over long periods of time

6 High voltage X rays with heavy filtration and
radium cmanation in heavily filtered platinum
tubes are employed for the specific rediation
therapy A LAMES LAFAEN M D

Detere L The Dangers of Radium Irradiation In the Treatment of Uterline Cancers (I es risques de la cunethérapie lans le trutement les cancers ut nn ) Bull Soc d b t et de gyafe d Par 19 7 v. 4.9

Although he recognizes the value of radium therapy in the treatment of carcinoma of the uterus the author believes that in operable cases its results are inferior to those of radical hysterectomy. He has found moreover that the use of radium is not entirely harmless as it may be followed by unfavor able local and distant reactions. The general reactions consist in an elevation of the temperature to as high as 30 degrees C for three of four days the result of the absorption of toxins from the neoplastic tissue and disintegrated cells and the retention of septic evudate within the uterus due to obstruction caused by the radium. There may be diarrhoze for several days. I requently headache nausea and vomiting result from the radium shock.

The local or regional manifestations are bladder and rectal irritation. This is usually evanescent but the author has known of cases in which proceeds with a bloody mucous discharge persisted for over a year. The ulceration observed in the vaginal wall involves only the mucosa. Perforations of the rec

tovaginal or vesicovaginal septa occur only in very advanced cases in which radium is contra indicated Infection of the uterus may extend to the adnexa or peritoneum and lead to a fatal peritonitis

The distant reactions are for the most part effects on the blood. There is usually a leucocytosis followed by a leucopænia. Large doses of radium may cause a diminution in the number of leucocytes and a secondary anemia. In several cases reported in the literature and in four cases seen by Devize.

radium treatment was followed by embolism

LEO M ZIMMERMAN M D

Piccurdo T J Wertheim's Operation in the Treatment of Cancer of the Cervix (Li operación de Wertheim en el tritamient del cancer cervico utenno) Semina med 1927 viv 333

This article is based on seventy three cases of cancer of the uterine cervix which were operated upon in the period from 1917 to 1927. The case histories are given and the technique of the operation is described in detail with illustrations of each step. The technique was that of the Wertheim operation but special precautions were observed to prevent infection. Such precautions are particularly important because this operation opens up large areas of tissue to infection.

A preliminary step adopted to prevent infection was curettage and cauterization of the tumor. The cervix was curetted with a Simon cutting curette and the cavity cauterized. This not only rendered the cervix aseptic but hardened and dried it Wertheim clamps were then applied to prevent con tact of the diseased cer 1 1th the operative wound and the cervix vas remo ed as a closed vessel

Another special point was the use of a retractor with a double curve to protect the urete s in the different step of the operation This retracto is

shown in an illustrat n

Radium may be used from t enty to twenty five days before the operation hen it is indicated it does not render the operation any more difficult and it contributes to the immediate success of operative treatment. It is dicated to reduce the size of caucers that ar lightly beyond the limit of operability to bring about hamostas in hemor rhage to effect sterilization in febrile cases and to stimulate in cases with acheva

The operative accidents in the c se e e ed in cluded ligeration of the vagina or the supra aginal part of the cervix in a few cales injury of the bladder in two cales a disection of the ulete

two cases Among the p tope att e complications were mild bladder I stu bances h matoma in three cases eventration in two cases and u eter I fi tula in two cases. One ureteral fistula cl sed spon

taneously

In the seventy three ca es there e e e ght deaths a mortality of a go per cent. One death was due to paralytic ileus. The causes of death ere paralytic ileus internal hemorrhage glycosu ia and anæmia in one case each and no toperative shock in four cases In the author's opinion the death f om glyco suria and the death from animma vere not due to the operation. The operative mortality a there fore 8 08 per cent Infect on occurred 1 o ly one case—the case of death from paralytic ileus. In the other cases the immediate results ere g d In the last thirty to o cases there were no death \tip

Mas on J C Total Versus Subtot 1 Abdominal Ily terectomy 1 J Ob 1 & G

In recent years the more general adoption of total abdominal hysterectomy has been strongly advocated by many leading gynecologi ts hut it should be remembered that these men have had a great deal more experience with the operation than mo t surgeons. In cases treated by surgeons with 1 s experience subtotal hy terectomy is still ad 1 thle as a rule

A compart on of publi hed results is difficult be cause some surgeon perfo m total hyst rectomy only in une mpl c ted cases in which the uterus is freely movable whe eas others frequently do not such cas although they remove the cervit strongly adv e rem 1 le er ther ated inhammation

For cases of fibromyoma myomectomy is pref erable to more radical procedures during the child

bearing period. If it is necessary to interfere with child bearing as much of the uterus as possible should be preserved in the hope of maintaining men struct on Coming out the cervical mucosa and thoroughly destroying it by the free use of the cautery is associated with just as much risk as com plete removal of the cervix and does not afford oute the same protection against future trouble. The mortality following either operation should be 1 m ited to accidental causes

#### ADNEXAL AND PERIUTERINE CONDITIONS

Gaves W P Oalan The py J 4 38 071

Advance in ovarian therapy in the past twenty five year has been I m ted by poor preparation of commercial products and difficulty in e tracting the pure hormone Though not fully specific the ovarian extracts ordinarily employed produce fa orable te spo ses in certain deficiency syndromes. The best results are obtained in the control of climacter c symptoms flashes and y someter disturbances are u 1fo mly ele ed In cases of menstrual deficiency not dependent upon general systemic disease or marked genital hypoplasia resumption a d in c ease of the flow result with moderate frequency In essential dysme o hæa in nervous girls due to fu ctional uterine spasm and associated ith nau sea indigestion heataches and flashes the pain and co c mitant symptoms are frequently relieved by o arian extract f uterine hi poplasia is absent Sterlty due to defective o ulation is also occa sionally relieved by ovarian therapy

The author uses ovarian residue almost exclusive ly and insures its potency by employing fresh prepa r t on d rect from the ma ufacturer Corpus luteum preparations a e less stable and occasionally to ic the absence of follocular eleme ts renders them less potent than ext acts from the entire gland

S UELA W LFE M D

lap n M Calca e us Concreti ns Probably O ri n Origin S mulat ng U ete al or Vesic l t (C ét s las p b bleme to t m l t d s cal l été au vé c Calcult (C 19 7 L

I ed I h

Papin reports the case of a 2 year old woman whom he as called to see hecause of pyuria and renal pain. Cumea pig inoculat on of the unite was positive for tuberculosis as was also the specimen from the right ureter alone The patient had not menstr ated for et hteen months

ray e amination revealed numerous shadows of calcul but the exact localization of the stones could not he determined \ \ roentgeno ram made with opaque cathete s in place (unfortunately the cath eter had entered the left ureter for only a short dista ce) showed the stones in the bladder field but not al ng the course of the ureters

Pap n concluded that the stones ere in the o aries and correl ted this fact with the absence of menstruation A right nephrectomy was performed for the tuberculous kidney Today three months after the operation the patient is well

MICHAEL I MASON M D

Keene F E Pancoast H K and Pendergrass E P Carcinoma of the Ovary J 1m 1f 1sr 1027 lxxxx 1053

The authors report their results in twenty four eases of carenoma of the ovary treated with the roentgen ray. All had been previously operated up on as follows exploratory operation six bilateral salpingo oophorectomy, seven bilateral salpingo oophorectomy and hysterectomy eight and uni lateral salpingo oophorectomy three properties.

Of the six cases in which an exploratory operation was done aseites and pain were little affected. Tive of the patients died within eight months after ir radiation and the sixth was rapidly failing five

months after the irradiation

Of the eighteen patients treated by partial or complete excision of the primary growth only seven are living. Their durition of life since the irradiation has ranged from four months to four years and nine months. Tive of them have survived one year or more and are now in excellent health. The duration of life of the eleven who died ranged from two and a half months to forty eight months. Of the nine who had ascite seven were benefited by the roentgen ray. Seven of those with oscites died later. Pain was a prominent symptom in eight cases ind was relieved in five. Seven of the eight patients with pain died litter. Palpable abdominal or pelvic masses were noted in twelve patients seven of whom died later. In four the masses disappeared in three they became smaller and in five they were not changed.

These results demonstrate that little can be expected when the primary growth has not been removed but in cases of recurrence following removal of the primary growth irradiation offers a fair prospect for at least temporary relief of symptoms particularly of pain and ascite. The technique is described.

PRILIP II ARNOT M. D.

cribed Philip II Arnor M D

Novak E Ovarian Metastasis with Cancer of the Uterine Body Is Transtubal Implantation an Important Factor? 1 J Ob 1 & Gv c 192

The material on which this article is based and a review of the literature indicate that the lymphatics constitute by far the most frequent route for the extension of cancer of the body of the uterus to the overy. This is what would be expected from the knowledge of cancer characteristics in general. Some of the evidence for the spread of corporeal cancer by the lymphatics is summarized by Novak as follows.

1 The lymphatics have been shown to be chiefly respon ible for the spread of carcinoma elsewhere

2 Knowledge of the lymphatic drainage of the uterus explains quite satisfactorily the distribution of the metastases in the ovary as well as elsewhere 3 Emboli of cancer cells are often found in the lymphatics

4 Cancer metastasis is often found in the tube with or without ovarian metastasis. It not infrequently occurs in the wall of the tube perhaps without mucous membrane involvement as would be expected if implantation were important.

5 The surface of the ovary is characteristically smooth and uninvolved as would be expected in lymphatic metastasis but not in direct implantation

of eancer particles on the surface

6 The bilateral distribution so common in ovarian earcinoma suggests a lymphatic source rather than implantation

imprintation
7 The lymphatic theory rather than implintation explains ovarian metastasis with pyloric ean cer although this problem has not yet been satis

factorily solve i

8 The finding of free cancer particles in the tube in cases of uterine cancer does not justify the conclusion that associated pelvic cancer is caused by implantation of such particles even in the event of their being regurgitated through the tube. More often these particles are probably moving down ward toward the uterus.

9 Sampson's cases of supposed implantation can cer of the ovary are far more logically explained as

due to lymphatic dissemination

10 In view of the demonstrated importance of the himphatics in the spread of carcinoma it is not justifiable to attribute the spread of carcinoma to direct implantation unless the lymphatic route has been evaluded

rr Of the seven cases of ovarian metastasis herein reported six appear to be logically explained by the lymphatic theory, while in the remaining case direct extension may have been the chief factor

r A study of cases reported in the literature bears out the impression that the lymphatics are the

important route for dissemination

In the operative removal of the cancerous uterus the prime importance of the lymphatics in the dis semination of cancer cells must be taken into con

sideration

The author does not agree with Sampson that preliminary curettage should be avoided except when there is no suspicion of cancer or the patient's condition contra indicates radical procedures. He believes that if such a policy were generally adopted it would inevitably lead to many unnecessary hysterectomies and a certain number of unnecessary hysterectomies.

#### EXTERNAL GENITALIA

Peterson R Transplantation of the Ureters Into the Bowel to Secure Sphincteric Urinary Con trol in Incurable Vesicovaginal Fistula 111 J Obst & Gnec 1927 v. 49?

The author is convinced that extraperitoneal im plantation is preferable to intra abdominal im plantation of the ureter since no matter how careful the technique of the operation something s lable to go wro g because the procedu e is not lke ordinary intestinal surgery in high an accurate tight

approximation can be made

If the stab wound too clely approximated to the urete hydro uter and hydro epho 1 with ascending infect on vill rult. If the elanescape of urne or faces arou lithe ope ing through the mucosa the patint will uccumb unles the peration has been priformelle trape it neally.

E traper toneal mplantat is no m re inficult

th n intra ab lom al impla tati n

The t uspla tation of b thu eter at the ame operation is asset ted that the og at r k nly one ureter hould be transplated at a time

Fine dang of it nancy fter t asplant tion of the uret r vill I pend upon ho much if any renal infection if a t re ult I the ope atom. The me e po bility of h ha gr h e cr l not ju this stellation. If ( MD)

#### MISCELLANEOUS

Whit louse B Some Problems of the Men tru I F not n th Ober atlons on the Rel th n of the Gra fian Follole nd Co pus Luteum to Putl of goal Uter n licem r hag El b gi W J J L b b th Obt 8

The author is the shear in a mammal a l div le the ast u cycle into four

parts foll

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is effe tel

4 l reg ancy r p eudopregna cy

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Te tile o ulati n mu t be con idered as being a

ph n m n n apa t fr m pro æstrum

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With completo of the p dop egannes a tate of pro t m de el p inch al eache at teme ab ut the tri st during the ab to of the peu loping man existence in the difference of the peu loping man existence in the conclusion. It have streamlers that the conclusion of the peu loping active the conclusion of the conclusion of

The funct f the co pus luteum 1 to m nta the nut it of the uteru and prepare the en lo metr um fo the embeddi g of the o um

Whitehou ef ated Halb n expriments of remoing corp a lut a at peid vary g f om the

seventeenth to f enty fifth days. In every instance uternic harmorrhage resulted 1 ithin from thirty air to forty eight hours. He conclude that the true mensitual harmorrhage is a result of degeneration and fatty necross of the corpus lateum the cause of high is closely related to the death of the un fertibled out.

In experiment on graafian foll cle. Whitehouse needled some of the foll cle and e cisel othes. Higher rhage esulted a all but one pate t.

He concludes that both the gradian folicle and the corpulateum contains an active prince pleahed to escendial for the proper le elopme (and function of the endomet une lithing reples in that of mither credition necros of the superficial laver of the edimental modern of the edimental laver of the edimental modern of the edimentum until the mitue decil as formed Many 1 stances futer ne hemorrhage in association with fibrosistic ovaire policy edivare a deconcern management of the edition of the edit

II II A NOT M D

Parol G Tl Top graply and Cl lcal A pects of Tum rs of tle Femal Genital! (Tp gr fi l degl t tm d g tl fmmi i) R 11 d g 9 7 37

Parol ep rt th graph a d c e reports ha meth 1 f r entgenography of the ureters in the f ntala 1 gr it 1 pl nest b rag ut both normal n 1 p thologi al a simmetre curvatue par t cularly in the pelve port in this emost fre quently affect d by ute ine and ova na tumor

It so be vat on dicat that ur teral diple ment may be a drect cause of diso de s n both the upp rand the lo er u ma tract and that moomtat nl tho omata of the ute us and boad h ament pl y an mport in ole n patholog cal de uat ons of the u eters d bladd r.

A cervical fibromic u es rete tion of ur ne les through mechanical pressu e n the eck of the hladder than hy pushing the tigone and urethr upw rd and fo ward thereby cu inga refle sp sit ontracture of the sphinted. Inc. tie ce cult fr ma milar tell mechan mpr dien paralys

of the phinet

Re I le son c comit thigh intal tumors
(i ben of ascribablit e c lill fors preg
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cu ed by the oper ti erm lofge nai tum

With regard to the operative removal of gential tumors I aroli advocates isolation of the ureter as a routine precautionary measure in all cases in which there is the slightest ground for suspecting its in volvement in the field of operation. I re operative ureterography diminishes the risk by demonstrating, the relation of the ureter to the rest of the field.

Of special importance is a knowledge of the greater lateral and forward deviation of the normal left ureter in its pelvic segment as computed with the normal right ureter. In pathological conditions this deviation is often expected. As operations for uterine fibromata and tumors of the adness require exposure of the left ureter four times as often as exposure of the right ureter the advantages of an accurate knowledge of ureteral topography in gynecological surgery can secretely be overestimated.

MINY A CHINESULFIT

Humant A and Cornil L. The Lymphatic Origin of Certain Cystle Formations in the Pelvis Following Total Castration of the Female (Sur I ign lymphat in deceture politic has tag I cleine confecture à la situit ntot le children (Sur I) Femily Pull Scholt I I gyié d I a go 7 x 1 488

Cystic or pseudocystic formations in the pelvi after total eastration of the femile are apparently not due to any single cau e. The authors report a case in which several months after a total his terectomy for salpingits the pittent returned complaining of severe pain on the right side and examination revealed a cystic mass in the right flank. The mass was removed. Some time later the patient again experienced pain in the pelvis and another fluctuant mass was discovered. Vaginal extirpation was attempted but because of the adherence of the mass and the occurrence of profuse bleeding removal was not finished. A portion of the presenting will was not finished.

sutured accurately to the viginal wall. Recovery was uneventful

Histological examination of the specimen reverled immediately beneath the vaginal epithelium a layer of fibrous tissue with a rich network
of blood and lymph vessels. The endotheal iming
of the set was continuous with that of dilated lymphatic vessels. The cast was therefore a castic
timphun,coma Whetherit was a truck imphangioma
or a simple hyperplasm resulting from an inflam
matory process could not be stated with certainty
but the authors I elieve it was the latter.

LEO M ZIMMERMAN M D

Guillemin A Serous Accumulations in the Lelvis
Following Operation (Collection s reu s pel
n c 1 t p ratoires) Bell So dobt et de
to de d t r 9 7 xx1 457

The author reports a case in which the patient returned to him one month after an unevantful historectomy complaining of severe pain in the abdomen sides and back. In the right side of the pelvis a fixed tender fluctuant mass the size of an orange was discovered. On re examination from week, to week the mass wa found to be slowly growing smaller. If the complete absorption of the mass the pain ceased entirely.

In the case of another patient pain developed in the back and pelvis following a somewhat stormy convulescence from hysterectomy for pyosalpiny and a similar fluctuant mass was found in the left culd eac. The symptoms persisted without abstractions everal months Ultimately a colpotomy was done thout half a glassful of clear yellowish slightly stringy fluid was evacuated and the cavity drune! The symptoms then gradually ceased

The origin of the e serous accumulations is un known but serous peritorities. It made accumulations and late hamatoma formation have been suggested as possibilities. It M. Privinguis M.D.

#### OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

II iterm n C R peat d Preman y Afr Am n orl or Indu ed by Rougen I r d at on of the O es (W 1) h 5 1 b h fr 1 Am h 1 1 t b b t h l n d O

The case reporte I va that of a woman thirty to years oil with a richite or tracted pelvy. In 92F because of se ere menorrhapa and recurrent pulmonary tuberculo s be was genen i full castration dose of the centgen raws on the right is le an I as this fail d to poduce the des red result she e ceived half of the full do on the left side four vects later. The seen dirtral alton was foll ed immedi

ately by ameno hor i

Three year later without return of menstrus to not he patie t was lelivered by force; of a still born but full te m and norm ils formed child and scarcely eleven m this after the delivery she gave birth to a healthy gif segling 2070 gm. In the second pregnar evp penature fact of other was done in the to year during hich he was u der observation the o mally levelog gchild showe I no ev dence of rocentgen injury. The m ther ameno hota ill persist.

Tau g F J Tle Amnote Find a dits Qu n trati Vaibity i J Olit 61 ,

Recent studie e pe ally b chemical anily es finding methane indiamnit to fluid pet debt elet to a metable function of the animo. While the ource fetham iotic fluid believed with revious able ceta ty to be the aim in epithelium the cause of the quantitative aratin by dam on in lotgoby trannin restillu known.

an loligoby framm n restill a known

Lettain type f def mity of the fetus are a o

catel 1 h hydramn n and oth r types with ab
sence of the find 1 both c nd t ons malformations
are e y comm

In olig hydramn on necr 1 of the amni

rather coinst it has be an tological fetor. In hydram n n h tological cho ges in the amnon or ch mical changes in the min tie fluid have been f und to c plain the occurrence f the condition but the plac nta s u usly la ge and the inceased suffer for secretion may tipla the increase n the quantity of the fluid. There is definite evidence of the phy ological swallo mgo fam not c fluid by the fetu and when the abso pt no fam notice fluid is blocked by a hand net degliuit on or a strict ein the upper p rt of the diget to etuble by damn or rule vith sirking frequency Ep cially n the acute forms of hid ammon a time pregnancy (usually unit ovulat in s)) offer found

The prognosis for the child is poor in both groups of cases. For the mother the conditions under d cussion usually mean a complicated but ord nanh not a langerous labor. There is some tendency to year lecutrence.

The fact that oligohy dramnion occurs most frequently in primipare and polyhydramnion occurs most frequently in multipare indicates that the physical rest tance to expansion of the uterus by the abdominal muscles is an important factor go erining fluid accumulation — E L CO NEL MD.

Gallema A Extr. Ute lne Pegnanes Rupt ed By Suc essi, Fsues with Correspo de Hamnitocele (G se et at n mpepr i at se et mit ello espe d t) Bit S d bi i dg se d P 997 x 486

The case reported as that of a para a forty ty o ye r of age who had two attacks of abdominal pain the nau ea and a tendency toward sync pe On e an ation a tender mass in the region of the right a l e a and softening of the cervix ve e made out F llowing the patient admi on to the bo pit I a thi d abdom nal cr s occurred with a lemonst able increase in the sile of the pelic m ss Lapa otomy revealed a hæmatocele occupy ing the right sile of the pelvis and part of the right il c fossa a second and encysted hæmatocele cap ping the corpu of the ute us and extend g behind it and a third and smaller hematocele al o e exsted by & in f ont and to the left of the uteru The th rd hamatocele found p oved to be the ol lest and the h st o e th most recent of the three acc m ulations The right tube high c ntained a fetus f about thee months s removed

The case clearly demonstrated the production of the edistinct bematoceles following three part al uptures of a extra ute neep eg aney. It is using us that the three accumulation were separate a distinct instead of being fused as is usually the case. The explain the different position of the bamatoceles the authors sumes that the tube lay in front of the ute us or gually a day a gradually drawn back ward by the increase in its weight from the successive barm of her Too M Z M ERRAM MD.

#### LABOR AND ITS COMPLICATIONS

L JB T Ne Id son the Mechan sm of Ce leal L c rati n Du ing L bo A Pr Itm nary Repo t 1 J Ob 1 & G) 927

When the fet I head di te d the ce vix the latter may be stretched so mu h that i g es vay at the sid s that i in its co g nitally weake t por

tions This form of laceration is the easiest to recognize the easiest to sew up and the one generally mentioned in the textbooks

In another form of laccration the mechanism of the tear is almost the same but while the mus culature and fibrous tissues give way at the sides of the cervix which are the congenitally weakest spots the external and internal mucosa of the cervix does not give way and there is a submucosal parting of the tissues Inspection of such a cervix will show thick antenor and posterior lips with a very greatly stretched and excessively thin bridge of tissue on each side. By grasping the internal and external cervical mucosa with two tissue forcers at is usually possible to separate these two layers from r to IV in without any difficulty and to discover in doing so that the very edges apparently intact have been disunited Occasionally however the edges are not torn at all that is the laceration is perfectly submucous The repair of such an injury is hest made hy splitting the mucosa and then digging out the deeper muscle and fibrous tissue and lifting it up so as to pass the needle heneath it

A third form of laceration of the cervix is much more complicated and not so easy to repair. The cervix is dilated radially to the utmost and the damage to the tissues is general that is all the fibers are stretched beyond their limit of endurance. The internal mucosa of the cervix becomes ædem tous and is ripped from its base prolapsing through the external os. The cervix after delivery looks like

the everted anus of the horse

The edge of the cervix so lacerated is not easy. The edge of the cervix is pulled down with ring forceps while the mucosa is pushed up into the uterus with the four fingers of the left hand the thumb making counterpressure on the exterior. The vagina and biadder are held up by means of a suit ashe retractor and are not endangered. While the cervix is thus restored to its normal condition at the stage of full distantion three sutures are placed at about the juncture of the vagina with the cervix being introduced from the vaginal side. These su tures go down into but not through the internal mucosa and hold the prolapsed layer in place until healing is well under way. The procedure is seldom necessary on the posterior lip. E. LORMEL M. D.

Hendry J Spontaneous Rupture of the Uterus Before or During Labor I dunbi rgh M J 19 7 vvviv Edinburgh Obst Soc 16,

Spontaneous rupture of the uterus may occur un expectedly and without warning in the course of

pregnney unexpectedly and without warning in the early stages of lahor or at the end of a prolonged obstructed lahor following a definite train of warning symptoms the recognition of which might have prevented it.

117

The author reports four of his own cases in detail and reviews fift four others reported in the literature. In the author's four cases rupture occurred (1) in a para ii with a bicornate uterus whose first delivery was accomplished by version (2) in a para ii whose first delivery was accomplished presserain section (3) in a para vi after a comparatively short labor with hrow presenting and (4) in a para vi after a long tedious labor with occupit positroir positro

In twenty one of forty cases studied crearean section was found to be the cause of the rupture. In sixteen of these twenty one cases the rupture oc curred during pregnancy and in seven it occurred during thou.

In \$5 per cent of the cases studied the cause was damage to the uterine wall in previous intra uterine minipulations such as version manual removal of the placenta difficult forceps delivery or curettage or of disease of the uterine wall following septic abortion a septic puerperium or other inflammatory condition. One rupture occurred at the site of an old perforation caused by a curette

Pitutary extract was regarded as the causal factor in 10 per cent while malposition and dispirity between the size of the presenting part and the pelvis was responsible in 12½ per cent. The author call attention to the fact that in all of the cases studied not a single rupture occurred following my omectomy.

The principal signs and symptoms were shock pain hamorrhage ees ation of the fetal heart tones and distinctness of the fetal parts to palpation

The author treated all of his own cases by supra vaginal hysterectomy. In one case extraction of the fetus through the vagina was done hefore the operation.

GILLIARD E. MILLER M. D.

Jellett H The Abuse of Gæsarean Section Brit M J 1927  $\mathfrak u$  451

Jellett states that exsarean section is seldom nec essary and should be avoided whenever possible on account of its immediate risk and its possibly crip pling effect upon the patient

He cites various statistical reports on the employment of the operation in contraction of mild degree eclampsia and placenta pravia

WALTER E LEVY M D

### GENITO-URINARY SURGERY

#### ADRENAL KIDNEY AND URETER

Begg R C Incontinence of Urinc of Renal Orig n B 1 J S 8 927

Begg reports a case of urmary incontinence due to irregular development of the renal bud derived from

the lover part of the wolffian duct

Incontinence due to an aberrant ureter occurs ex clusively in females Corresponding anomalies occur ring in males-in which the ureter opens into the prostatic urethra the vas deferens o the sem nal vesicle—are not accompanied by incontinence as the latter is prevented by the powerful external spbine ter The irritation may cause pollakiuma but never incontinence

While the anomaly is developmental its sequelx are not observed from birth in all cases. When the ureter opens close to the internal sphincter the tonicity of the latter sometimes serves to retain the urine-at the expense of renal dilatat on -until the mu cle is relaxed in normal micturition

In the diagnosis the surgeon must determine whether the aberrant ureter is on the right or left side whether it is supernume any or single and whether it is infected or dilated. The functional value of the renal element 1 olved must also be

estimated

If there is a history of incontinence with normal micturition and urine is seen to drip away from the vestibule or urethra after the bladder has been emptied with a catheter the diagnosis of aberrant ureter is almost certain. The rhyth n of the drip is similar to that from a u eter draining through a ureteral catheter When the bladder is filed with a colored solutio -ir digocarmine or methylene blue -the urine dripping a vay rem ins clear. In some cases repeated examinations may be nece sary before the leak is discovered

An abnormal orifice is difficult to find even when it is known to be present. When it i in the vestibule a careful examination vith the help of a magnifying lens may be necessary If it is in the grethra a water dilating urethroscope may disclose it if the patient is an adult. In you g children to discovery by the latter method will usually be impossible on account of the smallness of the u ethra and the difficulty in

getting suffic ent dilatation

There should be no difficulty in d flerentiating the ord nary type of enuresis in which there is c Dious bed wetting which empt es the bladder. In ca es of aberrant ureter the funct on of micturit on is norm 1 though there may be frequency from concurrent in fection A group of cases more difficult to differen trate are those of diurnal incontinence in children in h ch as the esult of veakness of the blad ler mus culature due to infection or other cause a small

quantity of urine escapes on exertion. As a rule th does not begin until after the age of 6 years. The patient should be elo ely observed preferally in a hospital Methylene blue should be given by mouth to keep the urine colored and filter paper covered with a gau e swab placed on the vulva so that the smallest feakage may be observed. If after a veek of observation with the patient in the recumbent position there is no staining aberrant ureter can probably be excluded

In the cases of adults who e incontinence occurs only on coughing or exertion the diagnos s may be ve y difficult as the same symptoms are frequently assoc ated with eakening of the vesical sph noter In these cases and those of vesicovaginal f tula the history should lead to a thorough urological e am ination. Even in the youngest child the amna can be satisfactorily e amined with the urethroscope The cystic ureter may he palpated through the anterior wall of the vag na and urine e pressed from

The main points brou ht out in the article may be summarized as follows

I There is a rare type of utinary incontinence caused he an aberrant ureter opens g into the ure thra or the vestibule of the vasina

2 The cardinal sign is incontinence in association with normal urinary function

3 The abnormality can he expla ned only by the assume t on that the wolffian ducts enter into the format on of the female urethra and ac tibule 4 Usually the abnormal ureter is one component

of a double u eter so that cystoscopy sho s two normal u ete s in the bladder

5 The ure ter is generally dilated and infected and belongs to a kidney which is diseased and has little funct on

6 The usual treatment should be nephrectomy or p rtial ner hrectomy but in clean cases ligature of the ureter may suffice. If the Lid ey is performing a large hare of the renal function the aberrant ure ter should be implanted into the bladder by a high CL RENCE P O CRO LEY M D operation

Thomson Walke Sir J Tub reulosi of the K dney B t W J 9 7 6 5

Fullerton A Stati ties of Postoperat e Survi al in Ren I Tubercul sis B t M J 1927 11 63

THOMSON WALKER states that as the result of improvement in urological technique and as in crease n our knowledge of urol og cal patholog) the operative mortal ty n tul erculo is of the kidney has been reduced from 25 4 to 2 or 3 per cent in the last to enty file years

Renal tuberculosis occurs most frequently be tween the ages of to enty and forty years In children it is rare and in the early stages is more fre quently bilateral The ratio of males to females affected is about it. In adults, chronic renal tuber culosis is unilateral in from 80 to 90 per cent of cases in the early stage

Strictly speaking primary tuberculosis of the kidney does not occur. A primary focus is always pre ent elsewhere in the body although it may not be demonstrable clinically. A history of pleurisy and clinical evidence of obsolete pulmonary tuher culosis are common while tuberculous glands of the mediastinum are found at autopsy in a large proportion of the case Active pulmonary tuber eulosis is associated with renal tuberculosis in 5.3 ner cent of cases

The exact relationship of tuberculous lesions in other parts of the body (also secondary) to the renal lesion is not always clear but some of these other lesions may be the immediate source of the tubercle bacilly infecting the kidney. Those most common are genital tuberculosis in the male and tuberculosis of the bones and joints. In the eases operated upon by the author tuberculous epididymitis was found in 33 per cent tuberculous prostatitis in 153 per cent and tuberculous vesiculitis in 7 3 per cent

Experimental investigations have revealed evidence of infection ascending through the lumen of the ureter and bistological examinations have shown evidence of lymphatic spread of infection along the ureter Pathologically there is evidence of lym phatic infection from the thorax. However, the weight of evidence at the present time indicates

that the infection in renal tuberculosis is blood borne There are three varieties of renal tuberculo is (1) miliary tuberculosis (2) chronic renal tuberculosis

and (3) tuberculous nephriti Miliary tuberculosis is an acute bilateral condi-

tion of no surgical interest Chronic renal tuberculosis includes apical tuber culosis ulcereavernous tuberculosis tuberculous hydronephrosis caseous tuberculosis nodular tuber and tuberculous abseess In the great majority of cases the first change is a small loss of substance at the apex of a pyramid surrounded by a zone of inflammation The ulceration subsequent ly spreads toward the base of the pyramid and a cavity communicating with the cally is formed Beyond this is a zone of inflammation which may show gray tubercles There may be also a complete zone of gray gelatinous tubercles Outward from the zone of inflammation isolated tubercles are dotted in normal renal tissue or arranged in streaks radiating to the surface of the kidney. The surface of the kidney shows groups of tuhercles over the subjacent tuberculous pyramids. In the wall at the neck of the calvy or the division of the pelvis at its outlet or in the pelvic wall fibrous thickening max develop and cause occlusion of the passage Per sistence of urinary secretion in such an area pro duces a localized cyst or bydronephrosis hut if urinary secretion is stopped caseous masses are formed In many cases the ureter is greatly thick

ened and rigid and shows ulceration necrosis and caseation of the mucosa Tuberculous infiltration stricture and dilatation of the ureter may result

In pulmonary tuberculo is the urine may contain albumin and casts. In chronic renal tuberculosis these may be present also in the urine of the other In the latter condition the symptoms usually clear up after removal of the tuberculous kidney In some instances these findings have been attributed to toxic nephritis and autopsy has revealed either an interstitial or parenchymatous nephritis but no tuberculous changes. Tubercle bacilly have been found also in kidneys without any specific tuberculous changes

The symptoms of renal tuberculosis do not at first and may never directly refer to the kidney They may include (1) bladder symptoms such as irritability with increased frequency (2) urinary changes such as polyuria albuminuria and pyuria the urine being faintly acid or neutral (3) the presence of tubercle bacilli in the urine (4) slight or occasional hamaturia (5) a continuous slight loss of weight (6) renal pain or colic (7) slight fever and (8) n palpable swelling of the kidney and thickening of the ureter In uncomplicated cases tubercle bacilli but no other bacteria are found in the urine Renal pain may be slight or absent Colic may occur when there is severe hamorrhage Fever is rare but occasionally the temperature riscs to 99 or 100 degrees F A high temperature is indicative of a mixed infection or general tuberculosis

A tuberculous lesson of the kidney may be ar rested as the result of (r) (bsappearance of the tubercle bacillus and replacement of the ulcer by scar tissue (rare) or (2) exclusion of the tuber culous focus by a ring of fibrous tissue (closed renal tuberculosis) In the latter ease there may be bladder irritability for a time but as this subsides and no other symptoms develop the lesion may not be discovered until after death. The condition is usually discovered during routine examinations by roentgenography and cystoscopy In the presence of the symptoms mentioned cystoscopy and chromo cystoscopy may show a closed and dragged out ureter Both open and closed tuberculosis may be present in the same Lidney
rary cessation of symptoms

This explains a tempo
Urinary tract infection may occur from a tuberculous focus which has been closed

The diagnosis of renal tuberculosis is hased upon r The spontaneous development of cystitis with an insidious onset in a young adult in association with discomfort pain enlargement and tenderness of the kidney

Aseptic pyuria and albuminuria (constant signs)

3 The presence of tubercle bacilli in the urine This is final proof of urinary tuberculosis but in some cases the bacillus is not demonstrable when the symptoms point to tuberculosis and in others it is demonstrable when other proofs of tuberculosis are wanting When the bacillus is not demonstrable in the urine the diagno is may be made on the basis of the symptoms the pre ence of tuberculous le ions el e where in the body especially in the male gental system thickening of the ureter \(^1\) ry, shadons of caseou mas es in the kidner \(^1\) log titre ey to scopic finil g \(^1\) lub reliable bellarin may occur in the alsen e of other igns \(^1\) turn tself cannot be regarded \(^1\) pro \(^1\) of turner to the transport of tuberculou diser e of the kidner \(^1\) in ome \(^1\) titre times the activated with \(^1\) non pech for eight it when puris; is beant \(^1\) closed renal tulercul ss \(^1\) be evaluded the \(^1\) is no su ical tuber ulo 1 of the k dner

4 The complement f att n eact of In mot cases accurate hagn stic metho! render this super flu us but ome cales it is of alue

5 lo tv cvst c c C fin ling These alone may we and the dagno of re al tuberculo i but the u eteral pritee may b n mal when the k lev is intect lor may be in led n an area of tuber ulou cv titt when the kidn v is free from d sea e Chromocv toscopy i of little liagno tie valu

6 The fining of catheterizat on of both u eters and examination of the urne with regard to tubercle bac II other ba tera and the functional po er of the ki lness In cus s f advanced tube culous cystitis n h ch the ureteral orifice are inflamed and ulce ated unly the pa sage of a catheter m p sible the author pe fers to do a lapa otoms and inc se the ureter n the l er ilac region for the p stage of the catheter but if the ureter s found

di cased it i not ope ed

7 The demonst at on by \ ray exami at on of
ca eou are in the tuberculous k d ey and thick
ening of the ureter and the demonstration by
pyclog aphy of chunges in the renal pelvis and

The modern treatment of renal tube culosis is neph ectorny hen the other kidney is bealtby and there a e no det te contra indicat os. Partial neph ectorny h seen abandoned hecause of the dicuits of determining the extent of the renal is ea e. Nephrotomy is do e only when neph ectorny is impossible. Obsolete tube cless el ewhere it the body d not cont a indicate neph ectorny. When act tuberculo i of ho es or joints i pes e t operation on the k dney should be postponed until the et rau ir ary tube culosis has been suc.

ce fully treated Acti e pulmona y tuberculos a contra ndication to operation on the kidneys. Tuberculo is of the male gental organs does not prevent nephrect my. In blateral renal tuber culosi some su geons remove the k daey showing the more ad anc d disease but thi i just field only when one kiney proved to cause profound towam a and the other is in the earlest stage of tuberculous infection.

In Th m o Walke s technique for nephrectoms, the urete remo ed through the lumbar ound a far as the pel to brim eared with the cautery or pure phenol I gated and d opped into the retro-portioneal space. If afte sux months the disease

still active in the ureter and is infecting the bladde extrapartional ureterectomy 1 done through a median superspulve incision. Unsertectomy is all viable v hen there 1. Tecture at the location of the duet (8 percent of the ureter in the latation of the duet (8 percent of the ureter in the latation of the duet (8 percent of cases). In most case the vound; closel subset d a nage but in some instances drainage may be nece 3 ary, on account of location of the perineph it c tissues by tubercle hacilly or other bacteria. Simuses that appear a few weeks after primary healing of the wound are due to tuber culture in the subset of the subset of

Tuberculous cystitis and ulceration usually sub it fits nephrectomy, but in chrome cases the full capacity of the bladder is lost and frequence de clop. The cystiti and ulceration may persist for years. The treatment of the bladder consists in the a limit atton of sandalwood oil and tuber culin. High frequency cauterization has been recommended for superficial and lim ted ulceration.

In the author's cases no results have been obtained from tuberculin alone but in all cases of renal tube culo is Thomson Walker gives tuber culin (TR) for two years after nephrectomy. This has a beneficial effect on the bladder and tuberculous less ons el e bere in the body.

FULLERTON revie s a series of rat cases of rena! tuberculosis in 72 of which nephrectomy wa done Fi e (6 8 per cent) of the patients died as the result of the operation All of the deaths occurred 1 the fi st 15 cases Of the 68 survivors 35 were traced Lifteen ha e died since 4 after long period of com plete relief Eleven died probably from a continua-tion of the tuberculous i fection. Thirty one of the su vivors have been well for period varying from t venty years to six months since the operation Including 4 patients who ded from other causes eight yeas or more after the operation a total of 35 out of the 55 (more than 63 per cent) were app rently cured of their urinary symptoms The sequele in the 9 survivors who were not cured in clude frequency pulmona y involvement epid dy mal in ol ement spinal caries and prostatic in volvem nt All of these survi ors however report more or less general well being

cally with tuberculin forty one ne e traced I these cases the cond ton was of the usual type and except in fie or si operation was not contained cated when the pat ent was first seen. Teen, six (63 pe cent) of the patients are dead. The sur twors lived in mo e or les comfo if or period canging from one year to eighten years after the onset of symptoms but only two were cally well in three cases there were deposits in the prostate vickes or op d dym and a b ciliur a was pre est vickes or op d dym and a b ciliur a was pre est vicken the patient. Since the prostate in the case of the control of the con

other survivors showed symptoms up to five years

from the onset of the illness

These findings indicate that operation is the best treatment of renal tuberculosis If operation is performed early before deep ulceration appears in the bladder relief is almost immediate. Even in late cases a cure may be obtained if the other ladney is sound. Deep ulceration and the presence of tubercle in the bladder render the prognosis less favorable especially as regards the relief of fre quency of micturition. Frequency, ensues even when healing occurs because the scarred and con trivited bladder cannot expand.

LOUIS NEUWELT M D

Thompson T Carbuncle of the Kidney Lancet

Carbuncle of the ladney is defined as a hema togenous infection of the interstitual tissue of the kidney producing a localized and circumscribed zone of multiple suppurating foci the remaining renal substance being unaffected. There is always a primary focus as a rule a furuncle of the skin

The author reports the case of a woman fifty two verrs of age who developed a carbuncle of the neck during January 1926 Incision was done for evacuation of the pus While convalescing the patient took a sea voyage During this trip at the end of the first week in February 1026 she knocked her left loin rather severely against a bunk. Ten days later she was taken ill with severe pain in the left side a high temperature and general malaise There were no urinary symptoms A diagnosis of influenza and pleurisy was made and the patient brought back to England After her arrival she continued to run an irregular temperature and com plain of intense pain in the left side of the abdomen and loin her general condition became norse there were occasional rigors and the swelling rapidly increased in size

On March 8 19 6 the left kidney was explored by kidd. This operation revealed a perinephric absces and bulging of the lower pole of the kidney by an ill defined indurated swelling. The abscess was opened and drained the kidney removed and the wound drained. The pus from the abscess was found to contain staphy lococcus aureus in pure culture. The patient made a slow but uneventful recovery.

The certain diagnosis of renal carbuncle can be made only at operation but the occurrence of a prexial illness accompanied by chilis pain and swelling in the loins within a few weeks after a primary staphylococcal infection of the skin particularly when there is a history of a blow to the kidney region during the intervening time should always suggest this condition

In the first few days of the illness the unexplained pyrevia may suggest an influenzil attack. When pain is an early feiture a cough develops and the movement over one pulmonary base is diminished it may suggest pleuris or pneumona but a careful examination of the lungs will ful to reverd any other abnormal signs. It may simulate also a bacillus coli pyehits but frequency of micturition and dysuma are not common the urine is neurly always sterile and free from pus and the usual alleviation of symptoms does not follow the administration of alkalies

Within a few days of the onset a deep swelling appears which is generally recognized as a pen nephric absecss Psoss abscess and on the right side appendiced abscess and acute cholecystitis must be excluded by careful consideration of the history and the findings of physical examination

The presence of a primary suppurative lesson suggests the possibility of secondary metastatic abscesses in the kidner. In crises of secondary renal abscesses the ulmer always contains a considerable amount of albumin pus and organisms. In renal carbunde the function of the kidney as estimated by the rate of exerction of does is not impaired whereas in cases of secondary metastatic abscesses of the kidneys it shows gross impairment.

When the permephric abscess is drained at operation inspection of the kidney will generally reveal a swelling at one pole with the point at which it has ruptured visible on the surface. If following the drainage of what is believed to be a simple permephric abscess the wound continues to discharge after the elipse of a reasonable period of time the possibility that a carbuncle in the kidney has been overlooked should be considered. In such cases an exploration will be necessary. Considerable help may be obtained by injecting the sinus with bismuth paste or lippodol when the presence of an irregular cavity within the kidney substance may be demonstrated.

If a case is seen early medical treatment may be tried with collosol manganese staphylococcul vaccines or sodium nucleinate. When a perinciphic abscess is diagnosed surgical interference is always midicated. Drunage is never sufficient in most cases nephrectomy will be necessary. When the carbuncle is found to be single small and at one pole the ideal treatment consists in excising it. The rest of the kidney which is unaffected should be left since as Kretschmer has shown a second carbuncle may occur in the opposite kidney.

CLARLAGE R O CROWLEY M D

Danhlez P Massive Infarcts of the Kidneys (I c grands 1 f ctus rénaux) J dirol él ci chir 927 vil 481

Although only about forty croses of massive renal indication have been reported in the literature the condition is not very rare. Experimental work with regard to the effect on the kidney of ligation of the renal vein or renal artery has yielded somewhat contradictory results but it appears that ligation of the vein leads to necrosis of the kidney and death in only about 60 per cent of the experimental animals whereas arternal ligation is always followed by necrosis of the organ.

In man the most frequent causes of renal infarcts are embolsom and thombos s of endocardial or aortic origin.

Less common causes are childburth and abortion. Unusual causes are neoplasms focad injunest the essels compression torsion or k nk ing of the pedicle diphthena scarlet lever grape and retrogra le thrombos s \text{\text{Virchow reported}} the occurrence in children of diarthead disturbances leading to dehy dration or pressure on the renal emby the inferior vena caus.

The pathological changes are those of infarction elthere and there isless of table t-saue are
found. In some instances seve all infarcts are pesent. The other k dnev may undergo septic changes
often sho s small infarcts and areas of necros s- in 1
s hable to it eparable damage if the affected organ.

s not removed

The clinical picture is characterized by pain oliquina albuminu is and hiematura. The pain occurs at the on et of the attack. It is ge eral at first but quickly bee mes local zed in the lumbar r gion. It is of a se ere stabb g character and re sists mo phine often pers sting for se eral day. It rarely radiates to the thigh o pudendial egion.

The albuminum is con tant and massive. If albumin as present in the ur ne before the attack it is increa ed after the attack. It is due to ascular

congestion and the elimination f neer tic products
Oligina is present in practically all cases. There
is usually a diminution to from 500 to 800 c cm.
Somet mes only f im 100 to 200 c cm. of u ine is
passed in t entry fur hours. Anu is may occur.

especially if both lichneys are affected Hamaturan occur in from 30 to 40 per cent of the cases. It is rately of a gloss nature and at times can be detected only with the microscope. It leasts if it to or the ed days. Occasionally there is cylindrutia (hyal nel hamnoglob nu ia o pyura under the control of the control of

felt in the flank

The general symptoms are not cheacte stebut
as a rule the condition couses vonnting collapse and
anse in the temperature to form of to 104

When operation n t pe formed the attacks recur at nterval of a fev d vs or weeks untl death

results from uræmia or perit a ti

The treatment 1 d cated is nephrectomy t save the other kilney. Even when the spe formed learly 1 for on may already have occurred in the other side or may occu the e later Wit natt 1 Mas x M D

Bi i ri T Tie Dagn and Teatment f
Milign at Tumors of th Kidn y (N t s ii
d
i i m d d )
i i m d d )

In cases in which the presence of a tumor of the kidney 1 su g ted by hæm tur a pa n and s ell ing catheter at on of the ureter roentgen g aphy and pyelography should be done at once. The first will show the origin of the hemorrhage and indicate which 1 the diseased kidney and the second a 4 thir I will show the deformity of the kidney and pure 1 is high is characteristic of renal tumor at a time 1 hen clinical examination is still negative

Pyefo raphy is of very great value. In doubtful cases it should be repeated in series at interval of a few weeks or months and a comparative study should be made of the pyelograms obtained in his way to dete mine whether the deformity is progressive Progressive deformity is a certain sign of timor

The only possible treatment of tumor of the kalness to any possible treatment of tumor of the kalness to support the highest possible to the temperature of the three exposure of the hius and obser ance of the general rules goven a g the remo al of malgnant tumor.

AUDREY G MORGAN MD

Motz G Pyelography and Pyeloscopy In the Diagnosis of Tumo of the Kidney and Renal P I is (L. pyel g phe et la pyel p d l d gn t d t me d et d bas t) 4 I I d lo I d Peckr 9 7 I

The author reviews twenty five cases of re al tumor in which a pyelographic examination as made and supplements his article with pyelograms

Pyelog aphy may show changes in the outline of the calvees and renal pelvi due to protuberances or depre sons total or pritial d supperance of the outline of the pelvis total or partial disappea and of one or more calvees amputation of the calvees central or marginal gap a change in the orientation of the circles and pelv see taken of the upper end of the ureter or dit tictness or rigidity of the outlier. None of the ede off mits the vert puth gnomonic of cancer as they may all be cau do clots calvul and infection s Moreover a cancer may develop fir a certain lenth of time without causing, deformity of the pelvis or calyces.

In ca es of cancer causing renat tumor and hama tu as the cancer is sufficiently advanced for cli ral liagn 1 and prelography s of only second ty impo tance. When there is only a tumor prelog raphy o better piel copy ill sho that the tumor 1 a e 1 neopl sm and ill e cluf e other forms fealurged ki heep such as polyestate k deat. Ham turn aloe is the most frequent in

Prel gr phy h uld al as bed ne n as es sho ag only hematura as at may make an early duag oss pos ble. No plorators ope aton shall be per formed thout preliminary prelog phy. If the 17 relog am show is the slightest deformity of the cal ces or e al pel 1 in such eases operation should be considered.

Of eighteen cases frenal cancer ob erel at the Neck. Cinc siteen shoel left mit; of the cafee and frenal peli appeloraphe ann tono Ofte cases n heh hem tra a the only sinal the dig os as loubtful lefo mit; fibe peli o o firm ng the clue alsu pieton of cancer wa found nevery case

If pyclography is performed systematically in all cases of hematuria suggestive of cancer it will sometimes give a sufficiently early diagnosis of renal cancer to permit successful operation

AUDREY G MORGAN M D

Mackenzie D W and Waugh T R Cystade noma Pseudopapilliferum Malienum of the Kidney with Metastases in the Tongue J T110 331

The authors report a case of cystadenoma pseudo papilliferum malignum of the kidney with metas tases in the tongue It presented not only unique features but characteristics of importance with regard to the histogenesis and pathogenesis of the tumor. The patient was a man sixty five years of age. In the right side of the tongue in immediate proximity to a dirty ragged tooth stump there was a hard indurated lump covered by a slightly ulcer ated mucosa. On the same side there were several enlarged submaxillary glands. The abdomen was di tended by a mass which filled the entire right side and extended slightly across the midline Poentgenograms of the long bones and the chest showed no evidence of metastases A cystoscopic examination was essentially negative except that roentgenograms of the ureteral catheters in place showed the right catheter pushed over to the left beyond the midline and the pyclogram of the right pelvis showed no shadow

Operation was performed first on the tongue and submaxillary glands because they presented a clim cal picture of primary carcinoma After the uro logical examination the right kidney and the mass were exposed extraperitoneally through a curved loin incision which extended interiorly almost to the

median line

The gross specimen of the tumor mass consisted of a rather small kidney the lower pole having been replaced by a thick walled ellipsoidal cost the size of a pumpkin which was distinctly separated from the rest of the kidney by its thick capsule cyst contained 2 750 c cm of turbid chocolate colored fluid. The outer surface of the cyst wall was smooth. The inner surface was covered by a soft spongy vellowish friable tissue

Microscopic sections of the kidney at a distance from the east showed relatively well preserved parenchyma with an increase in the irregular had line fibrous connective tissue between the tubules in the medulia. A few tubules were obliterated. In parts of the hyaline tissue calcareous degeneration

had occurred

Sections taken from the various areas of the tumor tissue presented the metamorphosis of the neoplastic growth. Near the cyst wall at the pole of the kidney the section showed mature regular closely packed tubular acini which re embled the tubules of the medulia of the kidney The cells rested on a rather rudimentary basement membrane The growth here would be called adenoma

Sections nearer the cyst began to show a less orderly arrangement. The tubules became larger irregular and cystic with invagination of the walls the picture of cystadenoma being pro

Farther away from the kidney under the cust wall the cells took on a less mature appearance but a basement membrane was preserved Pseudo papilliferous projections occurred into the lumen of the dilated acini which were found to be portions of aborted and incomplete tubular walls the inner portion of which had undergone atrophy and nec The cells became more immature Such a structure would be termed cystadenoma pseudo napilliferum

I mally there occurred areas of atypical arrange ment of embryonal cells breaking through the base ment membrane This structure represented the complete metamorphosis and was called

adenoma pseudopapilliferum malignum Microscopic sections of the tongue and glandular structure showed a metastatic growth simulating in every respect the mabgnant portion of the kidney tumor

In the authors opinion the various steps showing the metamorphosis of this neoplasm support the theory that malignant growths of the kidney may arise from benign adenomata. Attention is drawn to the gross similarity of this neoplasm to the hyper nephroma The difference between true and pseudo papilliferous projections into the lumina of cystic growths was carefully worked out The authors agree with Borst that the majority of papilliferous cystadenomata of the kidney are of the false type

The literature shows considerable confusion in regard to nomenclature classification and deriva tion of these malignant atypical epithelial tumors of the Lidney The authors report their case not only because of its unique clinical and pathological features but also because they desire to simplify the classification of such neoplasms by emphasizing their possible modifications and transitions in growth

The article is supplemented by a comprehensive bibliography and photomicrographs showing the transitional phases of the neoplasm

I EDWIN KIRKPATRICK M D

Maroona P Duodenai Fistula Following Nepitree tomy (Sulle fi tole duodenali consecutive a nefrec til dichr 19 7 vi 657

The patient whose case is reported was a man forty five years of age who had suffered for years from renal colic. When the author first saw him he had an enormous pyonephrosis and a temperature of from 40 to 41 degrees C \ \ \ roentgenogram showed calculi

When the sac was incised a lumbar fistula secret ing purulent urine remained. Three months later the kidney was removed. The operation was difficult because of adhesions. On the fourth day after the operation a perforation in the duodenum through

which bile was being di charged was found. The author concluded that the duodenum was injured in the difficult task of removing the kidney. The perforation was successfully closed by direct extra

peritoneal suture

In cases with this complication the soft press should be protected with fat to pre ent their digestion. Fecher introduces into the fistula a tampon of cotton impregnated with oli e oil. As the oil does not mix with the intestinal fluid the tampon prevent the discharge of intest hal contents and permits cicatrization of the kin le ion caused by the discharge. I echer reported the cu e of thirteen fitulax in the way in four twelve to fifty days. In two case, the fistulax a in the duodenum in two cases in othe part of the small intestine in five cases in the execum and in one case in the colon.

In the author's case—liquid and food by mouth are withh ld in orde to decrease the duod nilex e tetion of bile and pancreatic juce—into the duo denum and the patient is fed to a vible with alkaline or neutral foods through a ju al tube to get him in conditio for operation. Direct e traperitoneal suture is then performed the duodenum being mobilized as much as possible. After the operation the natient is fed by nutritive nemata and

glucose hy podermoch sis

A DREY G M G N M D

Gaudian V Surgical Tre treent of the Ureter with an Extrav 1 Opening (II t it m t h gc d il r t sb t a l) t d i l d i g 468

In a grl six years of age who was examined for enuresis exist. ginnee birth a super unrearry ureter was found. This orientated in an acce so y pelvis of the left kidney and it is ere let not not exist as mall pa a u ethral carunule. Before the mode of operation was decided upon it is ere made to determit ethe renal function on both sides. The presence of two normal u ethal of idea in the blade of was established by cysto copy. In ligora mue and phenolphthalein tests indicated no mal functional activity of the right k diety and marked in pattement of function of the left kidney (u me of a very low spec for g as ty a d no ehm at on of the diet from either the normal or the supernumerary ureter).

Because of these finding the author resected the upper portion of the left kidney including the accessory pel is together the enormously distated proximal egment of its ureter. The di tal

segment he left in sit

Microscopic e amination of the exci ed renal tis sue showed atrophy of the glomeruli and e ten i e proliferation of the interstitial connect e tissue

Of the valous plastic method that have been tried transplantation of the ureter into the wall. I the bladder seems to be the only promiting one and this i useless e cept in cales in which the ureter drains a health kid of in all others (decidedly the majority) total or partial resection of the kidnes is the method of choice Mina A Gilde sleeve

Schreiber M Ureteral St ctu e Its An tomical and Pathological Background Based upon the Findings in 100 Consecutive Autopsies S & Gy & & Obst 9 7 xlv 4 3

B) a study of autopsy material histological preparations clinical record and autopsy records the author attempted to answer the following questions I is there such a pathological lesion as that de

scribed by Hunner and his followers?

If so is its incidence as great as the reports

indicate?

3 Does focal infection play a part in its etiolo v?

3 Does local infection play a part in its etiolo 3?
4 If not focal infectio what i the true patho genesis?

5 What are the finer and yet gross physiole teal anatomical structural forms that may give to pyclographic and vax bulb methods those clinical sig s that are interpreted as ureteral structure?

The autopsy material consisted of two consecutive unselected autopsies 70 performed on adults and 21 performed on hidron. After careful examination of the organs in situ the entire pelvic contents with the universe attributed were dissected free on raiser. Fair titudiar attention was paid to (3) the course of the digmentum latum with the crossing of the urerine artery over the ureter. (3) the presence or absence of uterine prolapse or eystociet. (4) the course and urete all relations of the vias defe ons. (5) the seminal vesicles and prostate (6) the line and hypogastric ve sels and gland and (7) the bladder both its internal and external surface.

The ureters we e then exam ned for both phy o logical and pathological zone of narrowing a 1 midening and changes of density in their nall. In nearly e ery instance histolo cal sections of the

ureters were made

Chincal record were e ammed for a history of unarry disturbance focal a fection or ureteral stricture physical findings relative to the unary tract and physical findings relative to focal a fet ton

lutop y protocol were inve tigated as to the chief anatomical diagnosis the special anatomical diagnosis relative to ureteral stricture and special

anatomical fi dings of focal infecti

In 60f the 100 cases some form of urete ald sease nas found T ent) if the subjects with urete ald sease vere adult. In 3 of the 26 cas s the co d tion was p mary a the urete. In 2 of the 5 e animation excalled stenous at the pyelo ureteral a ea in stenous at the justic escal reg on and in cog et ald bind ureters with hydro uretero

nephr s
In 21 case the pathological c ndit 1 of the ureter
v assecond 1) to n ighboring nath logical proce 5
Of the 9 female naffarmath nof arous pel re
organs as f und 5 chron cost us 1 2 nd pro
lapse of the uter s in Of the ro males prost tic
obst uct on was four d in 5 c stit s of ne rological

origin in I cystitis in I tuberculous peritoritis in I and foci of lymphatic leukemia in 2 Of the chil dren a subureteral fibrosis it the site of the crossing over of the lateral umbilical ligament and obliteration of the hypogastric artery were found in one and microscopic deposits of lymphatic leukemia in the other

The autopsy findings in each case are described in detail. The following conclusions are drawn

Stricture of the ureter is a definite pathological entity

2 The discovery of ureteral stricture or stenosis in 1 per cent of the autopsies corroborates the great number of ureteral strictures or stenoses reported chinically

3 Latent symptomless hydro ureteronephrosis due to ureteral stricture or stenosis is of relatively frequent occurrence as was evident from the fact that it was found in 10 per cent of the jutopsies

4. Ureteral stricture as a localized intrinsic inflummatory process in the ureteral wall metastatic in character and due to focal infection apparently does not occur or is extremely rare as compared with ureteral strictures or stenoses of other oriem.

5 Ureteral stricture or stenosis is found most frequently in the pelvic ureter in a zone from to 6

cm up from the ureteral orifice

- 6 As prime etiological factors in the pathogenesis of ureteral obstruction due to stricture and stenosis we would emphasize in the order named (a) congenitally accentizated narrowing of a physiologically narrow site (b) extension of inflammatory processes into the ureteral wall from adneval disease with or without thrombophlebits and advanced chronic cystitis (c) the occluding kinking power of crossing anatomical structures such as the vas deferens in the male and the uterine artery in the female
- 7 Caution is necessary in the interpretation of the physical signs obtained by the wax bulb hang method of Hunner especially in the very important region from 2 to 6 cm up from the ureteral orifice since in this region are found numerous physiological sites of narrowing and increased density of the ureteral wall namely (a) the jurtavesical zone (b) the line zone (c) the ligrimentum latum region the site of crossing of the uterine artery (d) the was deferens region the site of the crossing of the year deferens (e) the site of the obliterated hypogastic artery and (f) the so called valve formation in the jurtavesical region

Carson W J Metastatic Carcinoma in the Ureter i 1 Sirg 19 7 lxxx 1 549

Carson reports the gross and microscopic findings made at autops; in cases of primars carcinoma of the prostate extending to the ureters by way of the lymphatics. In Case 2 there were metastases also in the renal pelvis

In the literature only a few cases of metastatic carcinoma of the ureter and kidney are to be found. In 1925 the author first demonstrated and reported cancer cells in the penvascular lymphatics of the ureter secondary to primary carcinoma of the prostate bladder and cervix uten. The rarity of metastases to the ureters from the prostate and other pelvic viscera is due in all probability to the drainage of the lymph downward in the lower portion of the ureter.

Carson's article contains photomicrographs of tumor cells in the perivascular lymphatics of the ureter and kidney pelvis

I EDWIN KIRKPATRICK M D

#### BLADDER URETHRA AND PENIS

Graves R C Studies on the Ureter and Bladder with Especial Reference to Regurgitation of the Vesical Contents The Bladder Pressure Curte in the Human J Urol 1027 xvm 321

The one fundamental requisite for regurgitation of the bladder is a sustained tonic contraction of the vesical musculature as it actively resists distention. Atonic bladders never regurgitate therefore postmortem experiments are futile with regard to experiments on animals. Graves states that there are no intrinsic anatomical differences such as have been clumed between the ureterovesical relationship of the laboratory animal and that of man.

Bladder regurgitation is of clinical interest be cause of its very obviou relation to ascending kid

ney infections

Graves believes that in man regurgitation occurs in the presence of obstruction at the bladder outlet. In his study of the phenomena he has employed a new instrument with which it is possible to record accurately the development of intravescrip ressure during bladder filling. This appearatus was devised by Rose of St. Louis who has recently published a report of his studies on the pressure in various types of human bladders with particular reference to the diagnosis of disturbances of innervation.

Graves describes the active animal bladder from which regurgitation readily takes place the passive animal bridder from which regurgitation is not to be expected and the characteristic human pressure curves which place the human bladder in the active group Louis Gross M D

Joelson J J and Lower W E Inflammatory Lesions of the Bladder Simulating Acoplasm A Report of Three Cases S g Gynec & Obst 19 7 dv 417

Inflammatory lesions of the bladder simulating neoplasm are not common

In the first of the authors three ca es cystoscopic examination revealed a sessile reddish tumor about r 5 cm in diameter which was raised about r cm above the mucosa and overlay and concealed the onfice of the left ureter. On its surface there were numerous rounded vill. The rest of the bladder was practically normal.

A diagnosi of carcinoma was made and the tumor with its surrounding mucosa was removed. The patholo ist reported many typical tubercles with grant cell formation.

Subsequent exstoscopic examination sho ed the right ladney to be normal and to have good function. The left kidney was a source of infection and its function vas greatly reduced. Pror to the operation the bliddle utine was negative but following the operation it continued pus and tuberele bacilly.

Nephrectom, was refused

In the authors, second case the patient was referred
for utological examination eleven months after a
biliteral salipingo opolporectomy. The pathologist
had male a diagnosis of tuberculous salipingtis sophoritis and en lomet tir. The dignosis of endo
metritis as male from tissue obtained by cui ettage.
The e was a inus due to a small pi e of the mais.

whi h could not be remo ed

Cystosc py exceled on the right po terior wall of the bladder a circum cribed to e colored tumor about 2 m in diamete and r cm in height. Th necoplaim wit is site and halledus hisped vill most of hich seemel to be cystic. The unceteral urine vers normal but cultures of both the kidney and blad le specimes ho el bacillu coll.

Vaginal examination relegible to make a discretive posterior to the biller le ton and a diagnosis of inflammatory action of the bladder all was made. Removal of the pelvic mass was refused.

The authors that ination as first se two weeks after the onset of bladder symptoms. Vagin levin nation eveale la large tender pel ic misse te la more to the left that to the light of ite midline. This could be planted it he loe ablomen.

C to cpie am at n 1 m tat da extensi tumor in olving the posten a lilitile i wall of the liaide. The tum was e 1 ed lingray naico relivith bundel ill. A noler te celema a pre e t

The n pla m w believ 1 t b an n perable care noma which had pu cl through th bl dle vall and in olv 1 th ur un lin t ue B cause fthe very liste 1 g mpt m transplantation f

the uteter a advict

Operation c [1] large film influentary mass due cit to the bill significant minimates the film of the film operation operation of the film operation operation of the film operation operation

The mit n file! n 1 ibed cre lv u
rin freque cv t 1 l ivu a t o f the
cn n 1 h m t 1 1

Inflummat 1 ar n a le up of la ge club sh ped vill h ch ma usually a rose rel fh te oul t 1 s two of the tumor des ib 1 ere cause l by contiguou

infimmation the possibility of an inflammatory tumor should be considered especially in the cases of women. In doubtful cases a biopsy may belief the diagnosis Claude D P CREEL MD

Heimann F The Clanges in the Bladde in Ca s of Cancer of the Uterus Tree ted by Irr d stip (D Blae end ng b m bt thin C b mutt kreb) Z !!!! f Gv k 197 l

The cystoscopic findings in cases of carcinoma of the cerv v of the uterus are a decis se fact vii the treatment of the latter condition. If the bladder i vol ed by the carcinoma the case is unsuited for operation and should be treated by i radiation.

The bladder changes may be divided into fourgroups (1) prominence of the trigone (2) edema of the bladder wall (trans erse fold) (3) bullous enterma and (4) perforation of the carcinoma

He mann studed the var ous bladder tha les lur g rradiat on in a large number of cases. He came to the conclu ion that the changes in the lesion must be det runned to a ce tan extent from the exists cope finding. Improvements an laggarat tons in the excitomatous condition durg true ment are almost all as associated with improvement or agg a atton of the bladder picture. The more of quent ue of existscopp as a control in the irradiati treatment of ute ine carci oma t recommended.

\*\*William 1.\*\* The more mended.\*\*

\*\*William 2.\*\*

\*\*William 2.\*\*

\*\*William 3.\*\*

\*\*Will

D n A L J Ule ton of the Bladd as Lat Effect of R d um Apple to t th Ut us J ! If I tol 1

The author epo ts three ca es n in the from four t not le ti four months after radium treatme t f re can ma i the uter ec ev x piura dv i l hamut ri developed and esso copic amma thom sho ede an uter t d. e. n in the bad esta.

tion sho ed an ulce t d er in the bad er sur

1 | lbwan gof relema B py specimen we executed a gnancy

A bulcer a e j b bly the result of a central

n co s du t ulce c vo f he bloot supply the author b I e ther treatment by 'e truette agent u h fulgu att n the tul cauter, t i h m il be da ger u. It he n fou I the m t. ucc. s I tr. tme t.t. le the ral alm 'trat n ol n alka in h v. mas metture uppl me t.d b. tle n tavesteal stillation of me curo ch me.

I love R A Ne \I thod (IT ating Hyp P d n po p t t I I I d I 7 477

In the period of the section of the

then allowed to cicatrize for four or five weeks until

At the end of that time the tube is cut free at its lower end sht longitudinally turned inside out and sutured to form a tube lined inside with skin and with the bleeding surface outward. Two incisions are then made in the skin of the penis one at the hypospadias opening and the other at the sulcus of the glans and free dissection is done so as to leave a tunnel along the penis. The tube is caught and pulled through this tunnel and through another made in the glans and brought out at the meatus where its edges are sutured. The posterior opening is then closed.

This method can be used in all cases except those in which the hypospadias opening is very far forward Audres G Morgan M D

#### GENITAL ORGANS

Lower W E Complete Closure of the Bladder Following Prostatectomy J 122 If 133

The author describes a method of suturing the bed of the prostate securely with complete closure of the bladder following prostatectomy. He has used this procedure in fifty cases. He believes it is contra indicated in the presence of severe crystius.

In the closure of the prostatic bed no packing of any kind is used. An in lying catheter with two openings is placed in the urethra. With a dot and

dash type of switch a suture of No o or No I cat gut is passed below the catheter from the bottom of the prostatic hed along its wall up through and to include a small margin of the bladder mucosa. The needle is then removed and threaded on the other end of the suture and the same procedure carried out on the opposite side. As many such sutures are placed above the catheter as may be necessary to close the cavity. One fine suture is used to anchor the catheter in position. A soft rubber cigarette drain is placed in the space of Retzius for 1 few days

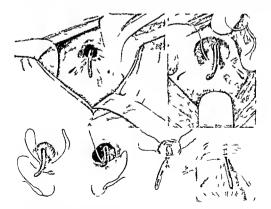
With the aid of this technique Lover has found that the period of convalescence by been shortened postoperative care has been lessened and the danger of suprapubic histila, has been reduced. He emphasizes the precessity for avoiding stricture formation, at the vesical need, in suturing the prostatic bed about the catheter and a voiding the use of heavy, catgut which may act as a residual foreign body.

In the discussion of this paper CHUTE LEWIS and RANDALL emphasized the importance of adequate postoperative drainage

CLAUDE D HOLMES M D

Campbell M F Gonococcus Epididy mitts inn Su g 1927 lxxxvi 577

This article is based on a study of 3 000 cases of gonococcal epididy mits treated at Bellevue Hospi tal New York during the last eight years. The important conditions from which this di ease must be differentiated are gentlal tuberculosis non spe



Technique for closu e of cap ule after prostatectomy (Lo r-Con plete Closure of the Bl dder Following P o tatesto 15)

cific epididymitis (bacillus coli and staphylococci) lues and torsion of the permatic cord

In the cases reviewed the morbidity was high but there were no deaths. Benela found sterrity in 10 5 per cent of patients vio had gonorrhea with out epidid mits in 34 per cent of those with u lateral epid dynut a 1 in 417 per cent of those with b lateral epid dynut.

Various palliati e me ures are discussed. Da thermy relie es the pain but doe not shorten the course of the disease \accine sera ntravenous medication fo eign protei injecti n and various local medicame ts are of little value. The best pal hatt e treatment rest n be the u of a spec al zinc gride suspense; and the application of ce to the affected eg on If the severe pain pe 11 more than fo ty eight hou suge I tre tme t should be given Sterility is no g cate after operation than Eurly on at on may decrea e t ithout operatio the econda v complexts su has suppu at on and subsequent less for hit chis ue Open pi hidymot my by the method of Hagne 1 the p oce iure of cho ce In Bell u Ho p tal this ope at on I fllowed by the pplicat a of a peci I scrotal hamostatic con pre n bandage Most of the patient are enthome n the 1 th day

M RI MELZ MD

Mo tls J II M I gna t Tumors of the Testi le v th Spec 1 Refe n e to Ci ss ficat on 1 h S g 9 53

Morris say the tradign terms of the testicle on titute le than 3 per c t of all malignay tumos but the unique fectures have fusel upon them ad gree finiere tand study buch in triving dip ports in to their mich nee

In case which he report in lettal the ento lermal deri atis, predominated in the primary tumo in the form of embry hal adenoca e noma but the potent lite of the other upp essed laye s

ere ex den el by a varety. I yet al mata la s in which all the germ I ver were represented. One of the meta tatt. I posit discelsed a structue which has bee in timed by a bocates of Che says theo y a cleater to the seman matous tumor. The latter bee us of it ell me phology and to upposed loon gun to use is ad to be de ved from the adult cell of the seminate us tubules thus preed of a nay textuo enoue ret conship

The t sue ith mn matou structure appeared as a depot a coatted that ago p it to dermal sice al met states th or gm of beh as unquestione? This is that strut a stated by Schultz ani! endrath that all of the meta tates of any given turn. Il be fined by the p touly a true compone it the primary tumor high has taken on m lignist prife attinitiolly so logically that at least in this it a c mi omatou its us as a constitution of methode feet of method the fined and its un loubted feet of method the fined and its un loubted feet of method the fined and its unloubted feet of the fined and its unloubted feet of the fined feet of the fined and the fined feet of t

If the forego ng p e se cor ect the conclus on arranted that t lea t an olated case em

nomatous tissue has been demonstrated as an ele ment of a heterologous embryonal structure of tera tomatous nature

It seems justifiable to conclude all o that the large celled tumor of the testicle is of embry onal type that the theory of its in ar able unicellular or homologons natu e has been di proved and that the endence adduced from the case reported substantiate Ewings theory of the teratomatous origin of the tumor. Lot is Goss VID.

#### MISCELLANEOUS

Cuti I II Obstrution of the Urina y Tract

Cutler d'scusses attous urolomeal instrument ad procedures and states that an accurate diagnos se an be made in about o per cent of urological cases by the intelle net use of the urolomeal armainent rium. He reports i cases in detail to inustrate the different types of unnary obstruction the method of procedure in each type and the results obstrainable.

Obstruction of the unna; tract appears to be a common factor in renal diseases. The injury it cuess is directly proportional to its de ree and its distance form the renal cortex. As cases of different toology present similar symptoms a careful ur logical study essential. The most valuable and in the dagnosis of obstruction of the upper un a; tract are the ax bulb ureteral catheter and the pick uncertage and th

Most ob tructions of the upper unmary tract visit the e ception of those due to inciplisms may be cured or relie ed by so called closed operatic procedures the ught the extstoored in his perfect of the prostate the establishment of dra na e b for enucleat on in essential. In obstructions at the neck of the bladder the most thorough drainage 1 obstructed by surrapuble c systomy

THOM SF FINE A MD

Kreut m nn II A R P liomy litis In olving
ti Ur nary T act C lif & li est M d 9 7

Kreut m nn has had under his care a ca e of poliomyelitis which p eserted find ags similar to those of spinal c d bl dder but in h ch none of the spi al cord conditions usually associated vith spi al c rd bladder wa discovered

In the literature the bladder involvement of poliomy elitis is described as occur ing in the acute stage. Only one creeks reported in which the urn 5 tract wa 1 volved 1 the 1 ter stages of the die ae.

Kreutzmann draws the f llo 1 g co clus ons 1 In the early tage of polomyelts acute re tention is sometimes a compleating factor

2 In choose poliomyel its the may be gro cha es in the unary tract who hall geneto the typical finds a characteristic of spin I cord bladder

Line Gross M.D. Eberbach C W and Arn R D Hexylresorcinol in Urinary Tract Infections Therapeutic Effect J Am M 155 1027 [XXXIX 512

During a period of two years the authors used herylresorcinol in the treatment of about 200 cases of urnary tract infection. Eighty two cases were controlled with sufficient accuracy to present evidence for or against the value of the drug. The following conclusions are drawn.

r Herylresorunol alone will cure about one third of patients with infections of the upper uri nary tract in which foci of infection and urinary tract obstruction have been removed. In an additional 20 per cent it will super a symptomatic cure. In about 43 per cent; it will improve the conditional and in about 25 per cent; it will have no effect.

and in about 25 per cent it will have no effect
2 In all but about one fourth of the cases of in
fection of the upper urmary tract an important and

valuable effect of the drug is its rapid and continued relief of symptoms

3 The earlier in the course of the disease that treatment is begun the greater the chance for cure In cured cases the average duration of symptoms is nine, and one half months, and in cases benefited twenty three months.

4 In mixed infections under treatment cocci often disappear from the urine while colon bacilli persist

5 Coccus infections respond to treatment with hexylresorcinol far more certainly than bacillary or mixed infections

6 If the use of hexylresoremol is combined with other effective methods of treating infection of the upper urmary tract it is probable that the percentage of cures will be considerably increased

THOMAS I LINEGAN M D

# SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Sci suffler R McE Recu ent Mult ple Osteo myel t s Due to Staphylococeus Arreus / +J 15 g 97

Schauffler re 1ews a group of cases of recu rent multiple o teomyel tis due to stanhylococcu, au eu in which there a an acute o set in childhood followed by numerou remissions and exacerbations

There is usually involvement of one or both femora includ g the h p joint or to or more foci in the humen or tibix. Several severe lesson appear in rapid succes i n and others occur within one or th lesions of the periosteum or deep fasc a Lainful swelling may esolve o suppurate The absce se heal promptly afte surgical or spon taneous dra nage Lesions of the humeru ce tral and lover this and ulns and radius recover by spontaneous or surgical eque tration whereas many lesion of the sh ft of the femur form extensive sequest a high require operation

In the I as severe types of eases there are o e or mo e major bone les ons and a long se les of pe los

teal or deep fascia lesions

Of eighty five ca es of osteomyeliti studied si tv n esented single les n fi e howed syphiltic in volvement and twenty bad multiple lesions se en being of the se e e and thi t en of the l type

Schauffler emphasizes the ece sity of search g for and eradicating the quiet foci n the cancel lous bone These are found m st often in the upper tibue and next most ofte in the femur presence may be determined by caref l \ ray examination of a focus in high the sinu re opens of near which smill new absce es fo m

The article includes a nu ber of case reports At OLFH S LEICH M D

Dega W and Zeyland J Tie P th genesis of Oste tis F brosa (C t b 1 à lét d d l p th & d l tét fib ) L / 1 9 7

The case reported seems to add weight to the theory of the non specific o ig n of Recklinghausen s disea e Following a bil teral Schede Ludioff ope a tion for hallux valgus on a foundry worke thirty three years of age an e amination of the exc sed portion of the right metatarsal head showed the following changes at their height in two well defined foci communicating with the periosteum fibrous degeneration of the bone marro v lacunar reso p tion by osteoclasts hamorrh g foci and an in tense vascular scle o i Vascular les ons on the left metatarsal of a s milar nature but less marked in licated an nitial stage of which the more definitely circumscribed lesio 5 on the right side were a later development The cause appeared to be purely local but the care is of interest in view of ce tain known instances of peneralized arterioscle rosis accompanied by osteitis fibrosa (Stenholm) MINA \ GILDERSLEEVE

Berard and Tavernier The Te tment of Osteosa com to by Phy cal Agents (1 p p d t te m td te ome p le ag ts phy q e) I.s. 0 7 11 45

Comments on Tavernier's methods of dia nos ing and treating spindle cell sarcoma. Berard cite the re ults obtained with roentgen and radium therapy by Regaud and othe a Except in the case of patient with spindle cell sarcoma of the orbit

he has remained free from recurrence for two yea following roentgen irradiation. Berard has not yet obta ned a final cure with radiotherapy

Of Regards e ght cases with involvement of the orbit upper and lover javs ulna and humeru seven have remained cured since 1919 I rolonged roentgen treatments with moderate dosage are g en except for the smaller tumors of the upper law The latter are treated preferably by evacuation followed by rad um therapy

Berard grees th Regaud as to the importance of biop y In cases of e tensive malignancy hi opsy should be preceded by roentgen irradiation It determines the dagnosis pro no is and method of

treatment

TAVERNIER attibutes Regaud's advocacy of biopsy to inadequate knowledge of the possib little of dagnosis by roentgenography By means of the roentgenogram it is possible to distinguish ben gn tumors from arcomata and ostest and spindle c sarcomata from esteiti be eas biops) is frequently uncertain and al ays da gerous Moreover in cases in which a prel m nary irrad ation s given the b op y must be d ne before the t ssues undergo any vi able change and this is imposs ble if the ses ion are dist ibuted o er a period of ten days or so as is A G LDERSLE E M desi able

A Ca e of Congenital Ulno Palma Club Hand with Sublu tion of the Finger u m n bote uht p lm e bl to dsphlg) R dwith P c 927 4.7

The si ver ld chill hose c se is report d p e ented co genital malfo matio s of the left foot and both hand but as other e normal The hands we e held in exaggerated palmar flexi n strongly adducted to and the ulna s de w th the finge's byperextended at the metacarpophalangeal joints and flexed at the interphalangeal joints. The radial styloid was quite prominent the proximal phalange appeared somewhat shortened and the thumb was adducted and seemed smaller than normal Except for some questionable atrophy the arm and forearm were normal Flexion at the wrist to a right angle and extension to the horizontal were possible Pronation was somewhat exaggerated but summation was almost absent Active flexion of the fingers was impossible lassive extension was possible to oo degrees Flexion was opposed hy the dorsal ligaments and tendons. Movements of the thumh were about normal. The left foot pre sented an equinovarus deformity There were no pathological neurological findings

Manual reduction and massage were instituted and the hands put in celluloid splints at night After a year the hands appeared almost normal showing only a slight tendency toward the former vicious deviation. Active movements however were

not much improved

Cases of this deformity not associated with osseous dystrophy are rare. As far as the author is aware the sublivation at the metacarpophalangeal joints

has not been described previously

The pathogeness of the condition is not explained Amnotic pressure (Dareste) amnotic hands (Kir misson) and osseous and muscular distrophy have been suggested as causes. In the case reported distrophy or aplasa of the lumbricals and interosses with contraction of the flevor carpi ulnaris and weakness of the finger flevors would explain the deformity. The etiology is important from the standpoint of treatment. If no serious muscular disturbance is present treatment similar to that for club foot should be adequate but if the muscles are atrophice or distrophic tenoplastic of various sorts are indicated.

MICHIEL VISON MD

Donati V Lower Dorsal Kyphosis in Adolescents
(Su la cifosi dorsale nferio e degli adolescenti)

Arcl 1 l d chir 1927 vviii 560

The author reports a number of cases of low dorsal ky phosis and supplements his report with roent genograms and photographs. The condition may be due to different causes but occurs during the years of growth. There is an indisputable connection between growth and the kyphosis. Cases in which the condition occurred in infants have been reported but in the author's opinion these were prohably cases of Potts disease.

The localization of the disease in the lower dorsal column is due to a special predisposition of the bodies of the lower dorsal vertebrae which are the last to complete their normal development and in which there frequently persists a transverse median area less rich in lone lamellæ than the other vertebrae and hiving a larger marrow pace. This area is constant in infunts and disappears gradually with the development of ossification. In addition to these changes in the central part of the body there are others of varying intensity in the epiphysis.

When these are particularly marked even if there is no spontaneous pain or pain on pressure which is not frequent the hypothesis of an epiphysitis or an osteochondritis deformans may be justified. In some cases traum or acute infection may impress special anatomical characteristics on the kyphosis.

If an early diagnosis is made and proper treat ment is applied the disease may be cured or at least improved and its progress stopped. Further studies are necessary to determine its etiology and patho genesis The theory ascribing the condition to osteochoodritis may explain some of the severe cases and the theory ascribing it to epiphysitis may explain some of the milder ones hut neither of these theories will explain all. There is no doubt however that there i a relation between growth and the kyphosis and that the localization in the lower dorsal column is due to the pecial morpho logical conditions and decreased resistance of the lower dorsal vertebræ AUDREY G MORGAN M D

Wallace J O and Permar II II Internal De rangement of the knee Joint J bone & Joint Surg 192 1x 677

I dislocated semilunar cartilage in the knee joint acts as a foreign body. If an acute dislocation is re duced and the joint is put at rest complete recovery usually results. Recurrent dislocations cause extensive joint changes such as longitudinal splitting or transverse fracture of the cartilage with dis placement of the fragments These result first in an asentic inflammation with concestion and a erous and cellular exudate and later in hyperplasia of the synovial membrane or overgrowths of granulation like tissue followed by congestion vascularization and fibrosis of the fat pads. The smooth articular surface is covered with a film of granulation tissue called pannus The fat pads may be injured coinci dently with the cartilage and become swollen and congested the condition suggesting a dislocated semilunar cartilage If a bit of fringe or villus hecomes centrally degenerated it may calcify be come detached and form a foreign body which if covered with cartilage develops into a joint mouse

Internal derangement of the knee joint may be caused by trauma ranging from a simple sprain of the internal lateral ligament to dislocation and fracture of a semilunar cartilage rupture of the crucial and lateral ligaments and fracture of the spice of the tibia There is usually a history of sudden severe strain with the knee in a flexed posi tion a slipping sensation within the joint inability to extend the knee completely and severe pain. In chronic cases there is intermittent slipping in the joint without locking tenderness along the internal lateral ligament and over the anterior margin of the tihia medially and recurrent effusions into the joint with subsequent stretching of the capsule and hgaments and atrophy of the muscles The scar tissue at the side of the torn cartilage causes a curling of the cartdage In another group of cases there are the usual points of tenderness and effusion \ char

acteri tic sign i slight limitation of complete ex ten ion due to partial locking of the joint

Roentgenograns may demonstrate a narro sm of the jour space on the d of the mpured cartilage a thickening of the structures in the anter or pouch and lipping at the marg no the condyle due to a thickened pannus formation. The external semiluana cartila e i rate is mured. When it must be removed the moval of the intenal cartilage is losed is ble

The treatment consists in the remo all of the irritating cause. In sevently one arthrotomics per formed in the unal manner with the knee field the internal sem lunar cartilages were removed in sity thre the tenal semilunar cartilage in three laterals are made and both cart lage in three laterals are fine and both cart lage in three laterals are found to be tuberculous and in one cale a tuberculous exist was found springing for the anterior end of this semilunar cartilage. In one case the poste for horn of the inth and semilunar cartilage was ruptured and adhered to the fragment above the internal cardyle.

B iss t Ruptures of the Tendon of Ach lles (App p d upt d t nd d ch lle) B H t

Rupture of the tenion of Achilles while not common a cfa from rae. In the case seen but was untion the ruptu e occurred while the pat ent was pushing a barrel. In one case t occurred at the net on an in the other in the upper third of the tendon. The latter c was of sp cal interest because t had remained untreet for three months with the foil wing eff ct make it inability to flex the foot mt. At dredu ton if the f c of fle to and rapid fat gue with pre-ented the pat ent of working. Y tope atton each fagment of the tend in as found d as n to a point the mixing end to end uture difficity.

An excellent result was obtained by suturing the tendon and maint ining the foot in entreme flexion in rise e all days

When they are operated upon im ne liately these runtures are cured very eas ly

1 R F DEGROT M D

# SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

G anti am S A A Metho i of Sp nal F zation in Tuber ul u Sp ndvl ts n Child en J Bo

Grantham de cr be a smpified method of splinting the pine with auto enou bone gr its for tubercul us spondwlti

Ar in tran ere ne ion is made just bene the the sprau proce of the second verteb a below the less on though the up as nous ligament to a point just abo e the level of the lamina. A tunnelin o teotome 5 in larg with a rectangular grove in whe nd in dep and ith a handle bent

ble a trow 1 is introduced into the incision at a point on the pote to reprocess just above the lamma. The fist process 1 then divided The spinois proce of are then divided to a point to a vertebra beyond the other end of the le ion and with the instrument is situ an autogenous tibial graft fittin into the groose of the instrument is insired into the time. The osteotome 1 the nivibidizary with the graft in contact with the stump of the spin ous processes and with the lamma below. The only sutures necessary are tlose for closing the wound.

after the cooring intervolunt is permitted to be up and sheet attention the patient is permitted to be up and sheet attention to the patient of the up and sheet attention prefers the method to the lither and Alberton dures because the latter required as uson of the depail fascia, which be considered importance for support Morcover this method gives immediate immaghination takes much less time than the other procedure and a attended with very lite sheet.

The article includes a report of six cases in which fa orable results were secured

RUDO IIS REIC VID

O good R B Et olog cai Facto s in Cert n Cases of So Called Sciatic Scol osls J B J is S g 9 7 007

Os ood Goldthaa't and Bucholz bel ee that in ome cases seature scolosis is due to arthri tresult ing from the absorption of to ins from the large inte time in intestimal is iss. In numerou instance a roentgenological study made follo in the admin 1 tration of a barnum enema revealed retention of the bar um in the cacum or transier e or descend in colon afte eventy to hous.

In O good's cases the patent; put upon a non con tipating diet and faulty bodily mechanics as conceived by everines. Frequently in abdominal pad or a light brace is applied to mainta a the creet on of the plot is. hen the pat entil ambulatory Mineral oid and agar are given and if nece say, are supplemented by senna historie powder cas for or colonic. It tions Occasionally oil enemis are given in the every day and later every other day of twice celly. Drown's method of abdominal mass as a used.

S cas sidue to intestin listas are reported. In all the rigime suggested e ilted in maked improvement. Rudolphi S Reich M.D.

L mb nud C A New Oper ton on D op Foot B t J S g 9 7 x 93

In the op at on de cr bed by Lambrundt an lucis n 1, a l ng smade above the external malleo luciose to the po ter or marg n of the fibula car ed do n belo the et man malleolus and termunated at the cr te of the middle metatrasi bone. The shan and all of the off parts down to the perio teum a et hen dissected b. ck. so as to exposite ioot and ba k of the ankl care be n taken to leave ntact the anterior and post nor i gaments of the ankle, jo nut itself. The pee o are d'edd low down a d'dissected up. The a tragaloscaphe d'ant

is opened and the knife carried under the head and neck of the astragalus into the front part of the ubastragaloid joint. The intero seous ligament is then divided and the knife carried into the posterior.

compartment of that joint

The subastragaloid joint is sufficiently freed to allow the foot to be dislocated inward the astragalus being left in situ. In order to mobilize the foot a little more the soft parts are dissected away from the upper surface of the os caleis and the lower articular surface of the astragalus and a noteb in made honzontally from side to side in the po tero inferior a pect of the scaphoid. The head of the astragalus is then depre ed to its utmost limit and the neck is sawed through. The foot is dorsifiered so that the cut surface of the os caleis and the sharp anterior margin fit into the notch made in the scaphoid.

The obliquity of the saw cut through the neck of the astraga us depends upon the angle at which it is desired to set the foot. If the paralysis is complete the foot should be set at an angle of 9, degrees to the leg. If the paralysis is incomplete the foot should be set in varying degrees of equinus so that whatever power remains may be employed over

a more useful range

The angle produced between the articular surface of the os calet and the astragalus both denuded of their cartilage is filled up by a graft taken from the exit ed bead and neck of the astragalu. This graft is not intended to act either as an intra articular or extra articular block it is de igned merely to increase the anteroposterior thickness of the astragalus when it is placed in the practically vertical position.

This operation has been tried for almost all degree of foot drop from complete paralysis of the dorsiflexors to partial paraly is associated with valgus and varus deformity. It has been done also on patients between the ages of six and sixteen years. In seven of nine cases it was completely satisfactory The two failures were due to shipping of the astragalus The be t functional result is ob tained in cases of partial paralysis because in these it 1 po sible to place the foot at an angle which enables the patient to make better use of the power he has left In one case Lambrinudi transplanted the active peronei into the tibialis anticu and posticus and set the foot at an angle of 100 degrees \ very good result was obtained Whether the paralysis is complete or not it is best not to set the foot at right angles to the leg becau e thi make the wear ing of an ordinary heel uncomfortable and pre vents the active gastrocnemiu from coming into action during walking. If the foot is set at 45 de grees there is a range of pass ve dorsiflexion of from 95 to 85 degrees and the gastrocnemiu acting through even the small range gives ome spring to the gast

The patient valk with an ordinary boot without a limp and have no pain. In none of the cases has

arthriti developed

The operation permits a certain range of move ment at the ankle joint enabling the gastronemus to come into action during an important phase of the step forvard and at the same time keeps the foot up sufficiently for it to clear the ground. Only the subastragaloid joint is arthrodesed

S C WOLDENBURG M D

#### FRACTURES AND DISLOCATIONS

Connell H E The Treatment of Acute Comminuted Fractures About the Elbow Jonn A Report of Sixty Cases South M J 1077 vx 579 Conn I Fractures of the Upper Third of the Ulna So th M J 107 xx 585 Shipley A M Open Reduction of Fractures of

the Forearm South M J 19 7 xx 59

CONNELL reviews cases of comminuted fractures about the elbow joint with severe trauma of the soft parts. In all the treatment was carried out in a comparatively simple traction device designed by him.

The average time of hospitalization was thirty two days. The end results were less satisfaction in industrial cases than in civilian cases. The author effects immediate reduction under general anæsthe sia regardless of the condition of the soft parts. The arm is then put in traction in abduction with the elbow flevel to the rearminism and the fletion is in crea ed daily until full flevion is obtained at about the fifth all On the fifth day, extension is begun and reache the maximum on about the twelfith day titine motion is begun as soon as pos lible. Physio therapp, in the form of heat and massage is begun after the fifth day.

In all of the cases reviewed a Wassermann test of the blood was made immediately after the injury Of the fifteen cases in which a positive reaction was obtained tivelve gave negative reaction a few days after the injury.

Constates that traumatic ankylo is of the elbon in oil an uncommon sequel of fractures about the elbon. There are certain types of fractures that will regularly result in partial or complete ankylosis unless definite effort is made from the onset to prevent disability. One of these is a fracture of the ulma pruteularly of the upper third.

In fractues of the upper third of the ulna reduction of the deformity is essential. When the deformity is reduced no limitation of motion results. If it is not possible to maintain the reduction open

operation is advisable

Fracture of the upper third of the ulna should be treated by hyperflexion of the elbow

Maintenance of the normal carrying angle is es sential for a perfectly functioning elbow. Any

scattal for a perfectly functioning elbow. Any thing which will permit greater freedom of the ulna in a lateral direction considerably alters the carrying angle.

In fractures of the upper third of the ulna there is a definite pendulum swing of the upper fragments to the radial side This is due in part to contraction

of the anconeus and supinator breas which originate from the external condule and are attached to the upper f agment The upper fragment is flexelly the brachiali anticus an I the bicep. The resulting flexion and the radial de lation of the upper fragment stretch the internal lateral ligament of the elbow and the deviation alter the relationship of the sigmoid cavity to the a ticular surface of the humerus thus limiting the motion of the joint

In replacing the ulna and elbow joint the author use instead of only a linear inc sion both a linear

and a semicircular 1 ci ion

SHIPLEY advocates open reduction for fracture of both bo e of the forearm when overriding is present and for late treatment or malunion of Colles fracture F E ERICK A TOSTES M D

Boorste n S W Fractures of the Spine 1 5 2 97

Fracture of the spine is sometimes not ecogmized because of mildnes of the sympt ms. The uthor descr bes the symptoms of facture occur i g at different level

The diagno tic value of anteri r poste i r lat eral and stereoscopic roentge ogram emphas ed Other factors of impo tance in the diag o is are (r) a h tory of sp nal int v (2) tenderness local ze 1 n the spine (3) pe 5 stent sp nal pain (4) pain e fe ed from the ner e oots in the region of the in jury (5) weakne's and def rmity of the spice and (6) vmptoms of p essure on the co d such as ab se c of normal refle es

The teatment f differe t t pe of p nal fr tures is it cussed in fetail and the following con-

clusion are da n

r In eve v case of mury to the spine a ca eful examination fo spinal facture should be made 2 The patient should be kept at re t unt I the

examinations a e completed

3 If the roentge ave m nat on vill not en danger the pat ent it should be male mmed ately Othe w se it should be delayed frirmt enty fu to forty cight hour

4 Factors of imp tance in the dagnosi are a hi tory of inju v to the pi e and locali ed p

n in and st fine s

5 If the fi t o tgenogram n gati e hut the sympt ms p t to a facture an ther or tg gram should be made after a fex lays

6 In the teatment rest on a Bradford frame should be follo ed by the apple ation of a plete

jacket or topl ste h !!

7 If the cord 1 partially 1 ju ed an I there e po itive sign of plessule in the cord lami ectoms to be cons de e l

8 Lam ect my may be ad ble e hen the eare no potive gas of psue a the crd o In complite transve e paraly i it i doubt ful hetl r peration vill help

af sı 10 Inlat a es thi bo gratt the p e h ullbe de 1 ing operati FRE RILL ST MII

The T eatment of Central Luration of the F mur (S !! ter ped !!a ! dlfemr) Cl d g d o 530

The essent al p neiple in the treatment of central luxation of the femur is tract on in the direction of the long axis of the neck of the femur The author use general anasthesia but spinal anasthe ia ma be employed The patient is placed on the operati table with the hip extending shi htly over the ed e The trochanter is located by palpation and a hon zontal inci on about 10 cm long is made down to the bone The hlunt tissues are dissected away u til the trochanter 1 exposed A metal nail is pa sed through the trochanter perpendicular to the log axis of the femur The nals about 25 cm lo gand 5 mm in diameter and protrudes about 2 cm at each end Two rubber drainage tubes a c sed to prevent contact between the nail and the soft parts The skin inc sion is sutured with hor chair or silk By grasping the two ends of the n il I utt makes tr ction in the direct on of the long axi of the acce of the femur while an assi tant makes counter t action When a moderate degree of force i u ed crep tation 1 heard and the bone 1 felt to yield When the bone has been re-tored to po tion a plaster cat coe ng the pel 1 a d th gh 1 rapidh appl d This plaste cast has a handle like arrage ment for the e e c e of t action

The cast and nail are left in place for about three weeks I requent roentgen e amination a e made to ee if any change n the tract n i nece s n On the tenth day the skin suture are removed E er other day as pt c med crition trance and ext sounds of the nal After to the emoval f the nul and cast massage thermother apy a t gradual everc e are us d The patent 1

t all ed to alk until after t o months The uthor has t eated three ca e in thi

xcellent

one f them fifteen years ag the results ere AD IC WR

St bb ng G F F ctu softle Upper End of the Fmur B t J 5 t o

Stebh g tates that n 34 cas of fractue of the pp r end of the femur f ct es th ough the great tr hante r t ce a c mmo as fractues through the neck. Fr cture though the neck are he t t tel by th Wh tman meth d and fractue th ugh the gett ch ter by Buck e te son Of n ope ton 1 of nee ary in The best fi talte tment any e e t facture the ppl ation of a Thom knepl t sthat

In the c ses r e i the liabilit e lt ng fr m f tu e of the eck a mu h grat r than that sit gi m fra tu ti ough the gre t tr chante btm spti t itl fret eofth

nck coe tufic tincto ten ble thm to tu t th f m mployment

F ctu of the ck f the f m rae luc to an It tithel rimb bileth ethrughth 1 b d ect 11 nce t t ha ter are c

Direct blows on the great troclianter do not fracture the femur but if the force is great enough cause fractures through the acetabulum

S C WOLDI ABURG M D

Angelelli O Traumatic Lurations of the knee (Le lussazioni traumatiche del ginocchio propria mente dette) Chir d organi di movimento 19 7 11 435

Angelelli reports the case of a man of thirty six vears who fell from a height of about 10 meters striking violently on the postero external surface of the left leg and heel with the leg in extension. The roentgenogram showed a forward dislocution of the tibia on the femur. When this was reduced and splinted the patient recovered with the joint in good bosition in twenty days.

Luxations of the knee joint may occur forward backward laterally inwardly outwardly interolaterally or as the result of rotation. The author per formed experiments on cadavers to determine the mechanism of their production. In complete anterior and posterior luxations produced experimentally by indirect action he found more or less extensive lessons of the capsule at its anterior posterior or lateral insertions depending upon the kind of luxation produced. There were always lessons of both of the crucial ligaments the anterior one being most frequently detached from its tibial insertion and the posterior one detached from its femoral insertion lartial detachment of the patellar ligament from its tibial insertion was frequent whereas total detach

ment or detachment from its femoral insertion was rive. The Interial internal ligament was almost always detached from its tibial insertion. The external lateral ligament was usually intact but in a few cives was partially detached from its tibral insertion. Not infrequently the head of the fibral insertion. Not infrequently the head of the fibral insertion was dislocated. The posterior ligament was the most resistant in only a few cases was the middle part of its tibral insertion detached. The semi lunar cartilages were usually detached from their anterior or posterior insertions according to whether the dislocation was anterior or posterior.

Unruch says that complete anterior dislocation of the tibia by indirect action can be produced by flexion combined with movements of rotation and lateral strain, and the author found this mechanism effective in his experiments. Malgaigne's mechanism of forced extension was not effective in producing anterior luxation but caused posterior luxation The author was able to produce anterior dislocation by forced hyperextension combined with move ments of rotation and lateral strain. The experiments give a very good idea of the mechanics of the knee joint the resistance and elasticity of the different ligaments and the approximate intensity of the trauma necessary to produce the various disloca They show also the importance as in all trauma of the constitution

The treatment of all forms of dislocation of the knee joint is reduction and immobilization for a few days followed by early mobilization and massage YUPRLY & MORGAY M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Moni E Int acarot d Inject o sand Substances
Op que to rhe Roentgen Rays Wi ch Are
Suir ble for Injection (Inject o teat td
c t b t j thi paq sa ay ns
\( \) P 1 P a q 7 c q60

The auth r la experimented ith solutions of arius this paque to the roentgen asset find a relatively no to it substace which can be in jet I into the caryiid a test for sist leation of

th cercb al cir ulati n

As the bromile a congeneral less tork than the boiled die resolutions of str tunn inhum is lum ill amm in m brom des vere tried first. The str it um vald thum salts vere lund to be the most opaque. The to let to of these in different trengths wat itste lift in the dog and then in man it a lund that in man the int avenous njection of fom 5 to 5 ccm of a 7 per cent solution of strontium bromile u ed only fleeting unple sant ympton

When the older ere teted rub dium and shum to life refult to be fusing Sodium and in calaver experiment of a just the ontgen rus

These up tanc hi e bee niected nto the caro till st dog limen. In the latter they demonstrated the c balve el

The result fith experiments a e to be given in a future report We are L. M. A. M.D.

Constam G R I m y Involument of the Upp I tem ti n llr mbo Angir Ob it 1 (Buegrs Die ) 4 J M S

Methan Sope cent fae of thrombo a gatas obliteran en at the Moo Chan he been peroulvelagan a crectl

The h cte it le i an inflammatory thombo n l ng n t ly the large y n and arter but als the hnc t branche

The caue f th leaciumk in Inmist caue first mpt my papear in the le extremite the lell nlarms become affected live fatell Innih entity first as series of inners in cape by socied the Mio Clince externing the cape by socied the Mio Clince externing in the leion of the ppe extremite. In furtheleion in the had a theout thing clinial obetto in lip pretly the hands extended to the order of the present the cape are prilectic thrombo angustu obliter an of the hall if equently lagned incorrectly in every cite for phila call disease a

complete gen i vam nat n i e ential. Thee group of obj t ve's nptoms must be lo ked for

() pulseles vessels (2) signs of vascular music ce ca and (3) vasomotor phenomena. Constant al sence of pulset on in one of the main test of progress of vascular insufficiency or a hi to of progress e involvement is suggestive of a well compen ated organic les on but alone is not successful compeniated organic les on but alone is not successful compeniated organic les on the state of primary functional vascular dessee is justifiable on the progress of the pr

Organic vascular affections often start with a o motor disturbances and these alone may be present in the early stages. Intermittent pallor and cyanosi

initial symptoms of thrombo angutis obliterans of the hand and are frequently mistaken for symptoms of Raynaud's diese. In the case of a male with a vascular affection thrombo angutis obliter ans should be suspected even in the presence of pulsing ye sel

In the upper extrem tes arteral naufficiency for mit brombo angli to solite and is more common than arterio clerotic endiritentia. It rarely leads to gogere of more than a fe fingers. In nearly all cases the lo er limbs are affected sooner or later. The poces localized in the lower extremities is usually much more mutilating. Therefore in a case of thrombo a gitt so lotherand of the hand pritect e measures to the lower extremities are ideated e. e. feliumal evoluence of the rivoluematic.

a lack ng Robert W Greek W D

McPheete 11 O The Inject on Tre time t f Va cose Veins by the Use of Scier 1 g Solu tons S g G & Ob 1 g 7 1 54

This eport is based upon the elscaler is sobtailed a thirt oscass of varicose vents in which approximately 8 njections of a selero ng solution wer given. The author das the foll was coclusio

r The results and ate that the pect on treat me tof varie site ath 20 per cent's dium chlor le solution; uper or to other method ope ative or no pe ative

The danger of death from embol m thou h theoreticall e r pre ent is practically and cin

3 The t eatment is ambulatory permitting the

patie t to c ntinue hi usual work

4 The p t ent is spa ed expen e as ho p tal bill
are a od d and he is not compelled to lea e h
wo k for from four to si weeks

5 If a correct technique is used al ughing ca

be avoided
6 The cramp like pains through the leg d tal
to the site of injection are no more severe than

many patients e perience daily

7 It is a simple matter to repeat the treatment if the varicosities recur

8 Unless blood can be repeatedly drawn back into

o The results are so uniformly satisfactory and obtained so easily and with so little risk to life that the injection method hids fair to replace surgical excision

Dumas A and Ravault P A Physiological and Ilistological Study of the Circulatory Conditions in the Left Lower Extremity in a Case in Which the Femoral Artery Was Ligated in 1870 (Recherches physiologiques et histolo iques sur les onditions circulatoire au inveau du membre in neur gauche ou a ait éte exécutée une ligature de l tère femorale en 1870) Lyon chir 19 7 vi 387

When examined in 1925 the patient whose case is reported (a veteran of the War of 1870) was still able to walk though with difficulty. The left leg had atrophied but its temperature was normal and there was no gangerne. The blood pressure in the dorsalis pedis was reduced to less than a third of

that on the opposite side

On the death of the patient from influenza the following year dissection revealed complete obbit eration of the left femoral artery at the site of ligation (upper part of the triangle of Scarpa). Immediately above the ligation the vessel was greatly reduced in size and its lumen obliterated. The muscular fihers of the media had also disappeared but the elastic framework of the adventitua was preserved intact. Below the site of ligation the artery progressively increased in size eventually attaining its normal volume and structure and showing in the gradual regeneration of its contractile tissue one of the meeties of functional adaptation.

The approximately normal caliber of the populteal and thind artenes on the injured side gave further evidence of the successful establishment of a col lateral eirculation. Although the increased resist ance offered by its multiplicity of smaller vessels was responsible for the decrease in the pressure in the dorsalis pedis and for the moderate degree of museular atrophy the collateral circulation had been adequate to keep the local temperature normal and to prevent the development of gangrene

MENA A GILDERSLEEVE

Leriche R and Fontaine R. The Discordance Between Local Hyperthermia Following Sympathictic Neurotomies and the Findings of a Study of the Arterial Circulation in These Cases (De la discordance custant entre le hyper thermies locales consecut es aux neurotomies 53 m p thqu s et les résultits de l'étude I la circulation attenelle dans ce ca) P 3e 1 d Par 1927 YXX 971.

In accordance with the theories of Bernard it has been assumed that the local hyperthermia resulting from sympatheetomy is due to the local active vasodilatation of the arteries. The authors believe that this theory is not correct for although the in crease in the local temperature and the visodulatation appear simultaneously after the operation the vaso dilatation soon ceases whereas the temperature in crease persists for some time. Moreover the circulatory response as measured by the Pachon oseil lometer is sometimes just the opposite of what is to he expected from the thermal condition of the part. These facts indicate the necessity for careful physiological study. No explanation is offered for them. MELLIAL L. MISSO. WID.

#### BLOOD TRANSFUSION

Dyke S C The Determination of Computibility in Bloods Lancet 192 ccmi 910

In the selection of a donor for transfusion it is essential to test the recipient's serum against the red cell of the proposed donor This should be carried out carefully and according to a standard technique In addition grouping tests on both recipient and donor are desirable but little im portance can be attached to them until we are more certain as to the constitution of the groups. The mere fact that a person is known to belong to Group 4 can never justify the a sumption that his blood will suit any and every recipient matching tests are necessary for universal donors as well as for others However as it is probable that the blood of donors of Group a will be compatible with the blood of more recipients than the blood of persons belong ing to other groups it is desirable to have personof Group 4 on the roster of a transfu ion service If transfusion is always preceded by matching donors belonging to other groups may also he included SAULEL KARN M D

Tzovaru S and Mavrodin D The Quick Arrest of Genital Hemorrhage in the Female by the Injection of a Concentrated Solution of Sodium Citrate (Aret rapide des h m gic génitale de la femme par les njecti ns de solution concer e de citrate de soude) Presse Méd Par 19 / xxx e86

The authors use sodium citrate solutions for hemostas in the menorrhagia of virgins and the likeding associated with uterine carcinoma and other genital conditions in the female. They state that the agents generally employed today for hemostasis—ergot by drastis hamamelis adrenalin stypticine gelvante calcum chloride and the various era and organic preparations—have not proved to be of constant value and roentigen castration periarterial sympathectomy and hypogastric ligation are not always possible.

Following a review of the literature on the u c of sodium citrate in my necological harmorrhage and a summary of its indications the authors report six case exemplifying the diverse conditions in which it is of value

In Case r there was an abundant metrorthiga of one week's duration the uterus was enlarged and the adnexa were swollen on one side and cystic on the other One intravenous injection of 15 c cm of 7 30 per cent solution of sodium citrate stopped the blee l ng in t o hours

Case was a case of met orrhaga of three eels luration associated with a cervical pol p Mer the injection of roccim of sodium citrate the bleed g stoppe! in three qua ters of an hour Operation was a listed

Case 3 as a case of noperable carcinoma of the cerv v. The enjections of to cem of sod um citrate during the first lay of textment led to ce sat on of the hamorrhage. The bled g lid not recu in the two months the patent s under observation.

Cae4 as rea e of bleed g at the me opruse n the nh ence of a v demo strabl path lyg al chin es. The bled g cae of ther to 1 jection of rocem of odium it at esquare fit van interval of ix hours.

Case 5 as the tof a man with a strongly per the Waserma reaction a 4 metror rhag of Thee jet ons food um citate to teral of to laws essucce ful. A toxphilitic treatment was then become

C e 6 wa a case of menorrhagna a l metrorrhagna f thee m nth du at n a socintel with a uterine abro d The al normal ble din was stopped by one injection f cm ol sodium c trate

The author lo not claim that so hum citr to shoull upply t therapeutic men u e again t the cause of th hum hage but maintain that it an lm t i fall ble humost tic and lar supe i to

an other s fr mployed

The olution is made up of 30 gm of so hum citrate o gm of magnesium chlo il c cm of di tille l ter It m v be inje te l int a n uscularly or preferably intra enou l' The do e 1 lom o to 5 c cm of th 30 per cent solution a dm v be repeated no or tice The t cd se for a man f 60 kgm seem t be about is gm The amount in the exceeded by the dos germin tioned Into a d symptom a e ar There may he par m la e ccelerat on of the pul e pallo a ten lenc to omit headache a light r met ll c taste n the mouth the tempe atu e ensition f electric shock in the arm and I g at night but thes 1 n t occur and re tle often are n t t ll ser ous and can be prevented jecting the solution lowl

is the mecha mof actin f the sod um t to bound up with the complex p oblem f blood coagulation o by h p theses can be g en with regard to t. The authors suggest that the cut ate may effect hermo cruss by (1) decreas g the costly of the h i () decreasing the costly of the h i () decreasing the costly of the hill of the blood or creasing the upilla fl (4) decreasing the the blood of the hill of the hi

MC L MASO MD

# LYMPH VESSELS AND GLANDS

Hanford J M Roenigen Ray T eatment of Tube culous Ce Ical Lymph Clands A Stud of 141 Fatient T eared by Smill Does f F Itered R entgen R y the Follow Up R sult A h S g 10 377

Since 3917 the author has treated 141 putents with the oenigen mays. The group were not selected except that persons with active pulmonary tuber culoss were usually ejected that the first active seed as small being about one that a the first active seed as small being about one that a tental discount of the selection of the sel

Forty pe cent of the cy tic swelling resol el w thout inc ion or spo tan ous opening The cold

ab ces es all re ulted in sinuses

The author concludes that tuberculoss of the cervical lymph glands i p imarly a surgeal pole him but mail dose of roenigen ray treatine t as given in the cases revice ed apper to shorten the could be come of the die ase and favor improvement in a stage 1 a large percentage of case e cept those of cold absecses. No undestrable effects we enoted This te timent compares la o ably with a volter so le conser at the measure but adequate data on all meth die epically follow up results a elacking all meth die epically follow up results a elacking the contract of the contract

Clt ll M Tle Su gie 1 T eatment of Tube c lou Glnd f the N k l N g 9 l

Ol 40 c e of tr uble ome neel gl nds a cli ic l di g o ol uuberculosis na ma le in 130 a d th d agnosis was confi med at operat on In 9 ca es th diagnosi s d ubful but 10 7 of the e tuberculo

en dered Ninetv three of the pit ents we female ro were unde 30 pears of age and 80 ner o e 30 e sof age 1 90 f the 83 n e histor si het th becate on of the c dition was ted it as blateral histor of the cases operated pon ner ad anced in the ever disch gig sinues T lit hld elope in 18 case and 1 to fitese a tonsallectom, and adeno deet my had bee performed in the latter there as only 1 case of tuberculous of the tonsal.

Pr a d t de ness occu ed o lv 20 ca e The ch ef compla nt as usually the un ightl ness of

th confition

Tuberculo is of the cervical gland must be differentiated from acute non tube cul un ade till light is die asse branchial evits third de la geme tin il mal gnancy

Acute tube culous aden us occur su idenl foll wing som ther infe tion. It is also reffrom to 4 eek in length. It then sub-ides or an abore si formed

	N	F gd t b f tg t tm t	Fgmbf	Fgpxlf ttmt		Shight my m t		ikam pmt		App tly	M	k dly b l pp tly ed
Ttl Laggld Smilgld Cyt well g	68 47 9 56	39 4 5 36 6 8	9 4 8 6 8		4 9	9 8 3	N 33 4	3 4 35 3 3 76 8	67 5 7	47 5 36 7 57 4 76 8	N 40 37 43	7 9 7 78 7 76 8

In Hodgkin's disease there is usually enlargement of other glands besides those in the neck the adhesion to surrounding structures is less marked and the spleen is frequently enlarged. Casention and necrosis have not been noted. Biopsi may be necessary for the diagnosis.

Branchial cysts may closely simulate large tubercu lous abscesses. They are usually of long duration and there may be an external opening or dimple

Thy roid enlargement is sometimes associated with tuberculous adenitis

Malignant glands should not be difficult to dis-

In tuberculous adenitis there is usually a chronic swelling with penods of remission. At first the glands are discrete but later large masses cascation and abscess formation develop. Fever is common

In the author's cases of fluctuant cervical abscesses incision and drainage are done. The abscess is curetted swabbed with fincture of iodine and picked. Yeary treatment after this operation has been found beneficial. If the sinus does not heal it is dissected. Excision by the radical block dissection method his been practically abandoned except in a few malignant cases of tuberculosis in which the constitutional reaction to the infection is marked and radical interference is definitely indicated to stop the progress of the disease. In all cases the greatest care is taken to preserve the eleventh and eventh nerves. Less serious cases receive heliotherapy or ray treatment for 6 months before operation is

considered. When in the cases of patients over 5 years of age small groups of glands become en larged and the enlargement persists longer than months complete removal is done. In the author soptioned postoperative \(^1\) ray treatment is of definite value in all cases. It was given in 33 of the cises which the author reviewed Secondary infection is resistant to it and when calcification is present it is not indicated.

Old sinuses should be dissected out If this is impossible they should be curetted closed around a drun and given \text{\text{Tay}} treatment. The original source of the infection should be eradicated before the glands are treated

No one plan of treatment will effect a cure in all cases. The use of heliotherapy radiation and surgery should be adapted to the requirements of the priticular case. For the average patient who cannot afford prolonged hygienic treatment surgery seems the method of choice. When operation is done great care should be taken to preserve the eleventh nerve and the lower branch of the seventh nerve. If the eleventh nerve is cut it should be sutured immediately. The operation of block dissection has been practically discarded because of the deformity resulting from paralysis of the trapezius Secondary, innervation from the upper cervicals is not to be rehed upon for satisfactory function.

In the cases reviewed there was no operative mortality and the follow up of the patients has shown excellent results James B Brown M D

# MISCELLANEOUS

#### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Levs D Spontaneous Gang ene of the Ext em

Spontaneous gangrene occu s in the old and the relatively young hence its clinical class if cation as senile and presentle gangrene. These two types are dependent upon et rely different processes one a degeneratic e-process and the other an inflammatory process an attenties or because of the almost constantly associated involvement of veins a thrombo anguit. Pathologically arter osclerosi and throm bo anguits a clistic etc.

In 139 cases of spontaneous gangrene of the extremities revievel by the author there were, 17 case of arterio clerotic gangrene 43 cases of arterio clerotic gangrene associated vith gheosuma 7 cases of gangrene occurr g n dirbetic per ons in whom the arter alcha ge if present 1 cer not p o nounced enough to attract attention 14 crses of thrombo anguitis obliterans 1 case of set oderma and 7 case in which arte tal changes may have been a contributo 1 factor in the gangre e but the principal part was played by infection

#### ARTERIOSCI ERCTIC GANGRENE

The more frequent occurrence of gangrene in the lor er than the ur ne e tremities may be d term el by the arra gement of the essels in the lower ex tremity Not enough ttention has be parl to the extent or location of the th ombus or occlu o Embolism or thrombosis of the p pliteal artery is practically I ays foll ed by gangren seem to indicate that in so pe cent of the ca es of semile gang ene the large es el of the e t emits are occluded Intle 47 case f enile sangre e e ie el there we e o death a mortal ty a little over a per cent Three of the patients ded of pneumonia 3 of embolsm and of myoca ditis. The cau e f r death is not stated. Twe ty se on of the p ti nts left the hospital with their vounds healed. The ounds of the other p t ents were granulating but they healed subsequently

Amputat on through the conducts—C den s transcondy loid amputation—is sat sfactory in the e cases

#### ARTERIO CLLROTIC GAN RENT WITH GINC LRIA (LIABLITIC CANCRINE)

It has been conclusely lemonstrated that hype glycomia with associated m tabole chan e is not the only fact r pred spoung to gangrene In persons with diabetes arterial cha es are com

Accumulting evidence indicates that the scalled diabetic grame reasons are causes as a trenosclerotic grangerine but is complicated by lyperglucemum. The cases reviewed show that gangre e develops in diabetic persons about a decade earle or than in persons with u complicated a ter osclerosis. The average age at which gain reappears in directic persons is 644 years while the average age at 1 ch. entle gangrene appears is 662 years.

#### THPOMBO ANGILLIS

Gnge e occur ng in the relitively y ungethe pre enile tripe—p esents a life ent picture from a tenocler t gringrenc with glycosura. Its omstans be characte i ed by i te nittent chudeation and y npt ms referable to the deep e sel or by the appearance i stoft to phic change. Or ed the most sit king changes is the extent e collateral crulation which may de elop Wh le some collateral culation which may de elop Wh le some collateral crulation which may de elop Wh le some collateral control of the collateral collateral control of the collateral co

It seems pob ble that the clinical course of thrombo in its obliterans may be determined or mo lined by the its fithe thrombus A thrombus or g it in a the femor latery a descending less apt to cau e gangrene the a thrombus occurring it it cante no o pote nor tibial arteries and ascending to the pool teal ritery.

The indication in the treatment seems to be to for the clinet alor culcition about of the data and is, thrombus In 4 of 7 cases in which heat on of the femoral arter, was some the e van dist not improcome t In 1 lich it a done after the dead opment of g gene ubsequent amputation was noce say. In 1 c. it was followed by death from heaming to a firet 36 hours.

The pain of thrombo a unit 1 due undoubted!

(a) mhe of factor. It may be a true arte all
pain. In 4 (the cases rev e ed the pain via son
trolled. The ope tron place the inflamed aftery

(est. File final res. It vill depend upon hether
not the collaterals which de elop are deased.

L LR SEIRE MD

Wom k N A Sabungual Melanoma II tchin
n M I tie WI tlo I h S g 19 7 x

The subu gu l mela ma ppe rs to be a more f i ent le o than i g nerally b he el Of tweatts is mela om ta treated at the Ba nes IIo p tal St Louis four ere melanomat of the nail bed

Of the four reported by Womack two occurred on the thumb and two on the fingers A history of trauma was given in two cases Finger amputation was done in all instances and was supplemented by dissection of the availa in two Two patients were living and well two and four years respectively after the operation. In one case the condition recurred within eight months. One patient cannot be traced

These Jesions form black fungriting ulceriting masses in which histologically two it pas of cells are to be distinguished (i) spindle cells which form interlacing cellular masses containing a moderate amount of intracellular and extracellular pigment and (2) polygonal or spherical cells which frequently show mitoses and contain less pigment than the spindle cells. The author agrees with Bloch that these tumors are probably epithelial in origin.

When these tumors follow trauma as is often the case they are usually not pigmented at first. Ghn dular involvement may occur early or may be de layed for many years. Melanomata occur most frequently after the fortieth year of age and in the thumb. They are found next most frequently in the fingers and least frequently in the toes. Early am putation with removal of the regional lymph glands is advised. The prognosis is grave. Derth usually results from metastaises. Michiell, I Mago. M.D.

Slye M Some Observations in the Nature of Cancer Preliminary Report Studies in the Incidence and Inheritability of Spontaneous Tumors in Mice J Ca cer Res reh 1927 x 135

Fhere are apparently two factors necessary to produce cancer (1) an inherited local susceptibility to the disease and (2) irritation of the right kind and in the right degree applied to the cancer susceptible tissues. In her experiments on animals Slye has found these factors the only ones necessary for tumor formation. Accordingly she believes that there is no need of the assumption of a cancer germ.

By selective breeding Slye has produced resistant strains which among thousands of animals have never shown one instance of tumor of any sort either malignant or being. Sle has bred also mice which are susceptible to cancer and show only one type and one location of neoplasm such as adenocarcino as of the mammary gland spindle cell sarroma of the kidney osteosarcoma of the leg bones etc. The study here reported dealt with the latter

Slye has been trying to eliminate either the cancer susceptible factor or the irritation factor to see whether cancer can thus be avoided. She found that in the case of a mouse which belonged to a resistant in the case of a mouse which belonged to a resistant strain a wound such as that caused by a blow from a cage door produced only scar tissue which event ually was partly or wholly absorbed leaving no un favorable results. The susceptibility to cancer is local not systems and injuries only to those organs or tissues that are susceptible to cancer caused neoplasia. In animals susceptible to subcutaneous sarcoma a rapidly growing sarcoma frequently fol

lowed a body blow. In those susceptible to skin cancer an epithelnoma sometimes followed triuma on the other hand in animals not su ceptible to breast cancer no amount of trauma to the breasts would cause breast cancer.

These findings require heredity to explain them and are against the theory that cancer is due to a specific germ

The mice which develop early breast enters are uniformly among the largest and strongest specimens and show no signs of illness at the time of tumor development. In tumors grow to huge size with very little systemic change and only later when in fection and the absorption of dead tumor takes place does cacheva develop. There is no germ disease in mice that is thus free from towemias and consequent systemic change.

In general cancer has not interfered with reproduction whereas any infection seriously interferes with reproduction. In Sive's laboratory no mother with any infection has ever brought to birth a large litter of strong normally develope I non infected young On the other hand previous to the time when secondary infections set in or the cancers have broken down the cancerous mothers uniformly have borne strong uninfected young with a normal life span and normal reproductive potency. These healthy young born of and nursed by mothers with cancer never have cancer either in infancy or later if the father is resistant to cancer as cancer resistance is dominant over cancer susceptibility. On the other hand the nursing young of an infected mother commonly contract the infection. This is another marked contrast between cancer and known infec-

The general and special growth propulsion which pregnancy stimulates all o seems to stimulate the occurrence of breast cancer in susceptible femiles. The growing embryo however soon takes precedence over the early carcinoma as it does over everything cle and during the gestation period the tumor growth is retarded. Infection tends rather to decrease all growth processes including those of the embryos.

In animals having an anteroposterior axis growth is more rapid at the anterior pole of the axis. This parallelism obtains al o in the growth of cancer in these animals. It has been noticed that nearly all internal tumors and breast cancers consistently show the greatest amount of growth along this axis or at the anterior pole of the anteroposterior axis of the tumor Cancers in the anterior mammary gland for example generally show the mo t rapid growth at the anterior end although there is more room for Cancer is but a mode of extension posteriorly growth probably of regenerative growth. There is no such relation between the rate of extension of inflammatory conditions and the anterconsterior axis or the anterior pole of this axis

These facts together with others such as the non contagious nature of cancer the multiplicity of

widely divergent types of irritation which occasion spontaneous cancer and the many strikin ly differ ent methods by hich e per mental cancer can be induced seem definitely to po at away from the germ theory of cance

Tendencie to susceptibl ty and mmunity to in fections probably e i t but do not behave in the same ay as pre ence al sence unit characters such as albini m and p gmentation for example. On the other hand ju t as true albin in is the total lack of the pigment making mechani m spontancous cancer has consi tently behaved n the ame way as the absence of a mechan sm fitte 1 to control p obseration and differentiation in relengtative processes. If an nimal has the controlling mechani m uniformly throughout he tis ue he is e ist nt to cancer If he lacks this c atrolling mecha ism he i loc liv suscept ble to ca c

In conclus on 'lye tate thet no observation made luring the eight enve softhi w kha e er been con tent ith the g m theory of cancer

HARRY C S L STEIN M D

Ssokolov N N Tile Changes n the H tol g cal

Stuctur of a Cince Following Sect nof its Sen of Ne e Supply and the Influence f Its New otomy on the Curve of Valous Pthologic IP es (Ub V d nm htigh B d K b h lt hDu h u, d d ьī Ň lb d b d E flu d N. ot m f hd rpthl hrP Din Zil f Ch

Ssokolow has tested out Molotkoff's hypothes of the neurit c o an of cance and Molotkon's recommendate n to t eat the condition hy neurot omy of the se ory roots and n ves supplying the tum r ma He pe formed the latt operation forty four times on the ty ne subjects. He found that in some c ses the neurotoms of the sensors nerve had no influence h tever on the growth or structure of the cancerous tumo and in others in creased it ate of growth He co cludes that a the operation it elf i no tiff n matte t should be pe forme i o l n desperate case with se ere neu rale c nam In the case te 1 wed Molotkoff by nothe is concern ng the neu tic origin of cancer was not substant ted in any manner

In cases of ch on c tr pluc ulcer neurotomy of the sensory nerves had a quick effect but r currenc s were not uncommon even fter complete be hing As neurotomy love s the restance of the t sues it may r sult in extens e necro s sequest at on and RIEDER /Z even seps

Wood F C Comb ned Rad at n and Lead Ther upy J 1 M 4 2

In a recent rt l Blur Bll tat I that he h gained the impresion that a combination of lead suspen od nject d at ut blc nt al and n u table do es increases the en tiv ty f ce ta n neoplasms to the action of the roentgen rays in exp rimental work will animal tumors Wood oh tained evidence confirming Blair Bell find nes Ia the article Wood reports the results of a continua tion of his inve tigation

It has been su gested by Mayer that the injection of de trose might at mulate the tumor cell to div i and that I rad ation folloy in such injections would be mo e eff caciou as t yould reach the cells du ing their divis on Acco ding to Wood it is certain that no aston shing effects can result from injections of de trose and that if the tumor is stimulated by uch inject ons they would always be associated with the ist of stimulatin unkno n metastases n some region of the body where roentgen irradia tion s not given

In Wood's opinion the action of the lead's solely a toxic one A larg serie of e per ments by Holthusen and others have cast grave doubts a the poss bility that such minute am unts of metal as are used can act as a radiator of seconda y r is It s more probable that the lead poro s th tumor to a certain extent and the roentgen ray carr e the destruction still farther

Wood's finding a e summa ized as follows

In a rat carcinoma of high virulence the com be ation of I ad and roentgen rays is mo e effective than e ther lead or the roentgen rays alone

In a rat arcoma of still greater gro th capacity no such increase in the effectiveness of the centren avs can be ob erved

3 In a prel mina y study of the effects of the addition of destro e to the lead m ture and p eliminary injections of de trose followed by lead th dext ose did not eem to nerease the efficacy of either the lead or the roent en rays

MORRI II LAHN MD

Ullm on II J Collo dal Le d nd frradiation G nc Th apy J 4m M 1

Ullmann bas come to the conclusion that lead has a marked flect on certain tumo s and th t one of ts effects is to rende the neoplasm distinctly sen i t e to irradiation Tf is sen it eness fi t become apparent some little time after the admi strati of an appreciable amount of the le d Two illus trat e cases are reported

MORRIS H LAH MD

SURGICAL PATHOLOGY AND DIAGNOSIS

Dudgcon L S nd Patr k C V A New Meth d fr the R pid Mic oscopical Dagnoss of Tum than Acc unt of 200 (se S Ex m ned B t J S g 9 7

The autho d cr be a ne methol fo the rapil m cro cop c e am n ti n of neopla ms an i 1 lam mato v t su rm ed t oper to almo t pe fect prep atio s In te t ng the meth the d agno is a s m de almost entirely without

knowledge of the clinical findings or the microscopic appearance of the new growth In 200 examinations there were only a errors and only 6 of the latter were serious

The freshly cut surface of the tumor or other tissue is scraped with a scalpel and the milky juice so obtained is spread evenly on slides While still wet the films are placed in Schaudinn's fluid where they are fixed for from two to ten minutes On their removal they are washed first in alcohol and then in distilled water Mayer's hæmalum is used for the nuclear stain and cosin for the counterstain films are then dehydrated and cleared with absolute sicohol and tylol and coverslipped with Canada balsam The specimen can be prepared for micro scopic examination in ten minutes

The results in the oo cases examined are arranged in tables according to the organs and systems from which the specimens were obtained With the excep tion of the nine errors the film diagnosis agreed with the paraffin section diagnosis especially as regards

malignancy

The authors emphasize that the perfect fixation of the wet cells in Schaudinn's fluid demonstrates the structural details in a manner not possible in parafhn sections The cytological structure of mahgnant and other cells and the arrangement of the cells in the wet film preparation are described in detail. In the examination of postmortem specimens this method is unsatisfactory on account of autolysis

The microscopic appearance of the tissue prepared by the method is shown in six photomicrographs I EDWIN LIREPATRICE M D

Lewis W H The Vas ular Patterns of Tumors B Il Joh s Hopkins H sp Balt 1927 vh 156

Five different types of rat tumors were injected with 3 per cent India ink From one to four tumors of each type were used with somewhat varying results as regards the completeness of the injection The vascular patterns of each type of tumor were found to be very characteristic. Those of sarcomata are quite different from those of adenocarcinomata The three different types of sarcoma differ from one another grossly histologically and angiologically and a glance at the vascular patterns is sufficient to identify each one

The tumors studied arose spontaneously in Walk er s rat colony in one strain of rats (Strain P)

The technical procedure was as follows

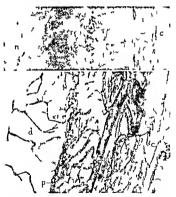
Under ether anæsthesia the thorax was opened and from 4 to 10 c cm of blood were withdrawn from the heart with a syringe Through an incision in the left side of the heart a cannula was introduced into the aorta and from 50 to 100 c cm of 3 per cent India ink in Locke solution were run into the body with a gravity pressure of to 3 ft. The tumors were then cut out and put into 10 per cent formalin I ree hand and microtonic sections were run through 50 ,0 80 and 95 per cent alcohol cleared in modified Eycleshymer fluid (carbolic crystals



Vascular pattern of spindle cell sarcoma Cap sule (c) Note absence of lar e aff rent and efferent essels

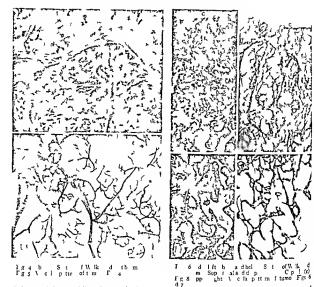
one part oil of bergamot two parts and cedar oil two parts) and mounted in balsam hæmotovylin and cosin sections were also made Two fibrosarcomata one spindle cell sarcoma three round cell sarcomata one adenofibroma and four adenocarcinomata were injected

The vascular pattern has apparently nothing to do with central necrosis as noted in the adenocarcinoma Necrosis is due apparently to failure



Tig 2 abo e Section of Walker round cell sarcoma Capsule (c) necrotic center (n) Note terminal capillary ple s (P) nea inner edge of li ing ti sue nec of c center and shell of his ng tissue is a dark band of m cropha es

Ing 3 below \ascular pattern of \alker rounled cell sarcoma (Fig. ) Note rich supply of afferent an lefferent e sels in the thin shell of ling ti sue \(^1\) fev capillary loops extend beyond the terminal capillary plexus (1) into degenerating area (d) Capsule (c)



of the endothelium to foll w the gro th of c rtain st ands of tumor cell g carcinoma

It seems not unlikely that each type of tumo has a vascular pitte in peculia to it type just as does each organ in the bod. The dagnos s if the typ of tumor can probably be made as eadly if m the vascular pattern as from ordinary sections.

The blood vessels do not determine the gro the of the tumor but the tumor determines the gro the and the p tte of the ves els

LINT MAL

MD

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NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFFRENCE INDICATE THE PACE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE PEFERRED TO MAY BE FOUND

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LOUIS E SCHMIDT Genito Urinary Surgery PHILIP LEWIN Orthop die Surger/ ADOLPH HARTUNG Roentgenolo; HAROLD 1 LILLIE Surgery of the Ear L. W DEAN Surge y of the No e and Throat ROBERT H IVY Plast c and Oral Surge y

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#### EDITOR'S COMMENT

THE persi tence of virulent streptococci in the body tissues for long periods perhaps after symptom of infection have subsided is emphisized by Curtis admonition to defer operation after strept coccie infection of the tubes for at least two years (p 20) and by Illingworth a bacteriolo ic study of the bile and gall bla l ler wall in 100 surgically remove l call bladders (p 1) In oo pairs of tubes involve l in gon rrh kal intlammati n Curtis was unable to find the or anism two ve ks after the acute symptoms had subsided. No comparable study could be made with safety in the presence of streptococcic infection but Illingworth s finding of infection of the gall bladder wall in 6 of 100 cases of streptococci alone in 34 cases and f streptococci and coliform bacilli in s case is definite evidence of the frequently note I clim al fact that streptococci nce implanted in the body ti sucs rem un for long periods of time as poten tial sources of acute re infection

Kilner and Muro's interesting study of the comparative results of operative and non spera tive methods of treatment of tubercul si of the o) empha izes the fact that re-toration spine (p of the affe t I bone mu t be attained b fore the patient i allo ed to get up and that linkal evi dence of cure is not adequate or of f such retoration. As to the value of different methods of treatment the author c nelude that cure depends principally up n 1 no continue 1 rest without eight learing and that patients in whom fu ion operation have been fone require practically a long an I careful after treatment as patient un perat d'upon. The mai e nelu ion of the authors will be a aited with intere t sin e the pre nt r ; rt in heate the constantly in crea me ten lency to treat b n and joint tuber culosis by pr l neel immobili ation and helio theraily and reduce merative procedures to the mumum

Frazier r part of fourteen years experience with fractional to n f the ensory root of the triggeminal nerve (1 180) emphasizes the advances

that have been made in a relatively short period of time in the surgical treatment of tri eminal neuralana It also re alls the fact that the ubstitution of a comparatively simple and certain procedure-section of the ensory root-for the dangerous and difficult operations such a exit pation of the ganghon and avulsion of its branche that were formerly in yo ue and that the subse quent refinements of the operation-pre era tion of the motor root and of the unmals ! sensory fibers in patients with involvement of one or to o divisions of the nerve-have resulted almost entirely from the work of Spiller and Frazier I arely is it the fortune of one surgeon to contribute so largely and effectively to surgical theraneu is

Miller's comprehensive discu sion of the treat ment of uterine fibriad (p. 197) emphale priteularly the specific indications and contained extreme for radium treatment myomectima superactive and complete and vaginal histeric tomy. He states that he experience with \(^1\)as it treatment is limited because of the satisfactor results obtained with radium. Abstention from treatment for small symptomies a timoric circular pre-operative preparation of the pritent gall in a lling of the use \(^1\) in limitation of the number of clumps used at operation to dimin he the likelihool of postoperative thrombophilebits are ore of the points upon which Viller has special site.

Koniz interesting report on the successful use of preserved grafts of the fascia htta of theor (p. 228) the dicus ion of Lewi ohn and I Horsley on the surgical treatment of gastion lean lifectation (p. 187). Heradions account of three cases of Charcot pane a sociated with the (p. 210). Pauline Law and Diss stuff of the pathogene is and cellular pathology of the pathogene is and cellular pathology of a city of the pathogene is and cellular pathology of the technique and result of pot operative roentgen radiation in patients with cancer of the breast (p. 182) area of others of the many interesting, contributions reviewed in the

# INTERNATIONAL ABSTRACT OF SURGERY

MARCH 1928

## ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

EYE

Rados A The Nutrition of the Eye Arch Ophth

This article deals with the aqueous and vitreous as factor in the nutrition of the eje to which the myopia of uveits the hyperopia of diabetes and the question of glaucoma are related. Leher's theory that the aqueous is produced by the ciliary body was refuted by the work of Hamburger which indicated that the aqueous! produced by the cellular activity of the iris and that there is no current of secretion through the pupil. In their production composition and hological qualities the aqueous vitreous and pinal fluid are closely related

In animals the albumin content of the aqueous is very slight except immediately after paracentesis. Under normal conditions the aqueous is ionizable but following prixecentesis or in inflammatory reactions of the anterior segment it is in colloudal solution. The ionizable solution is due to dialization the colloidal to filtration. The aqueous is the nutritive agent of the cornea and lens but the vitreous is concerned with the nouri himent of the lens especially the potential pole the normal course of the metaboli m of the lens being regulated by the capsule.

Constans G M Ocular Pemphigus 1m J

Ocular pemphiguis 1 very rare. Its symptoms are general Irvne's the formation of bleb. Itching and burning of the cyc and redness of the conjunctiva \( \) \( \) a rule the condition is bilateral. In its later stages it may be complicated by symblepharon entropion corneal ulter hypopyon or perforation.

The author reports three cases The fir t was a case of general pemphigus with evere ocular manife tations the second a ca e of primary pemphigus of the skin with econdary involvement of the eves and the third a ca e of primary pemphigus of the eye Groke R NG VILLIES WIL

Adler F II Ocular Disorders in Deficiency Dis eases 1rch Ophth 1927 lvi 593

This article is a review of the findings of an experimental and clinical study of deficiency, diseases as they affect the structure and function of the eye Adler discusses verophthalimia at length and cata racts and night blindness more birrels. The bibliography contains four references on deficiency disease in general and thirty eight on the ocular aspects of deficiency disease.

VEGIL WESCOTT VID

Derby G S and Carvill M Anterior Ocular Tuberculosis 1rd Op/1/ 1927 lvi 5 3

The authors report a study of sixty three cases of anterior ocular tuberculosis. They believe that phlyctenular disease nodular scientis scierokera titis and scierosing keratitis are related to tubercu losis. In §5 per cent of the cases the initial inflam mation of the eye was a phlyctenular keratitis. The diagnosis was based on the ocular finding a focal reaction to tuberculin (which however often fails) the signs of tuberculosis elsewhere in the body the elimination of other causes biopsy of the lesion and the findings of guinea pig inoculations. In all but seven of the cases a recurrence devel

In all but seven of the cases a recurrence devel oped but the periods of quiescence ranged from three to eighteen years. The mortality was high being 17 per cent. Tuberculin was used freely both the bouillon filtrate and old tuberculin. In two cases it seemed to do great harm the patients lost the sight of both eyes. In the author's opinion the best that can be said fairly of tuberculin therapy at the present time is that in certain instances it may help to cut short the attack. It does not prevent recurrence and occasionally may do serious harm.

Hopkins J G The Treatment of the Commoner Syphilitic Lesions of the Fye 1rd Oplih 19 7 1 1 543

The arsphenamines are the most active spiro charicides and clinically the most effective. Bis

muth and mercu y are al o of undoubted value and should be u ed in conj ction with the rasphena mines. In early case, the treatment be ld be intended to the adminitate of firm, bould be continuous a little treatment in little get little cases the treatment belle to give it in middle cases the treatment belle to give it in middle cases the creatment belle to give it in middle cases the case the case in the middle to give the middle case the case in the case held of the pair that the intraven methel put properties the intended case held on the pair to the case held on the pair that the case is the case held on the pair that the case is the case held on the pair that the case held on the pair that the case held of the case held on the pair that the case held on the pair that the case held of the case held on the pair that the case held of the case held on the pair that the case held of the case held

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The authorstat that he on ees a greater number of configure mathan formerly and lege under the retion of the changes in the ptick those of the lual teld a different to the lege can dent cere or cupping of the late to the ector l changes in central a digo behalvy ion

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it This tpe is specially pito occ who
rit is teited early the mydrate at time t
h h ll ssye h formation r nd the pil

lary margin. Sometimes it is seen after cataract extraction when there is synechia formation between the pupillary border and the empty lens capsule

In Group there were nine cases in which the entropium resulted from the contracture of a mem brane extending from the naterior surface of the lens cap ule to the anterior surface of the iris In four the primary condition was luctus indeed; life for the primary condition was luctus indeed.

Group 3 was made up of one case in which the condition was produced by the contracture of a membrane on the posterior surface of the inst following catarret extraction with severe hamorrhage in the anterior and posterior chambers

In (roup 4 there were five ches in which the entropium was associated with iris bomb

GERGER MCMEIFE MD

Butler T 11 Three Cases of Embolism of a

Three cases of embolism of a retunal arters are reported. In the first, the condition was peripheral unit bere was a corresponding sector field defect. Under treatment by puracentesis massage and the use of amyl intrie the condition clericed up entirely. In the second and third croses the emboli were situated more centrally and caused loss of vision with the exception of light perception. The cruse of the condition in the lirst case 1 not stried. In the second and third croses it was endocarditis and thormbosis of a various vein respectively.

SAMUEL & DURR MD

Somberg J S Optic Nerve Pallor without Functional Distribunces in Luetles 1 J Ophil

Discoloration of the optic nerves without changes in visual acuity or the fields of vision has been noted frequently. The purpo e of the study here reported y as to ascertain any changes in these nerves in patients undergoing tryparsamide treatment. In a study of the funds of ooo persons with cerebro spinal syphilis Sombers noted a washed out ap pearance of the disk in eighty six (4 3 per cent) and other ocular changes due to syphilis in 75 per cent In about So per cent of the cases of disk pallor the condition was bilateral In about 85 per cent of this group vi ion was normal in the others it was subnormal but no lower than 20 40 and occasionally a slight peripheral contraction was apparent. At the end of a two year period of observation almost 60 per cent of the cases of this group showed a primary optic atrophy without any marked functional disturbance In 6 per cent optic atrophy with reduc tion of vi ion and field changes supervened and in the remainder the atrophy was incomplete

The most probable cause of di k pallor vitbout functional change is involvement of the small vessels of the central connective tissue strand of the optic nerve. The author believes that degeneration of the gan lion cell may be the prime factor in the production of primary atrophy.

GEORGE R MC VILLER M D

EAR

Fraser J S and Nelson S II Deaf Mutism Due to a Bilateral Lesion of the Auditory Sensory Areas Bril M J 19 7 11 8 2

In the vast myority of cases of deaf mutism the lesion is situated in the ear itself. I raser and velsion report in detail a case of deaf mutism in a child three vers of age in which the lesion was found on histological examination to be in the auditory paths and centers.

JAMES C BY SMELL M.D.

Stewart J P Herpes Zoster Oticus J Laryngol

The author reports a case of zona with a multiplicity of lesions involving primarily the estibular guiglion on either side. It was assumed that on the left side the infection traveled up the large lymph spaces in the substance of the coollear filment connecting the vestibular guiglion with the geniculate ganglion and probably extended down wird along the chorda tympani involving the lingual nerve. It is possible al. o that there was a primary infection of the gas erian ganglion.

The symptoms were blisters on the left border of the tongue a slight loss of tiste fever left sided deafne's left sided facul paralysis and bliateral vestibular paralysis MI eveept the left sided deafness cleared up My FORD P WALTE MED

Symonds C P Cranial Nerve Palsies In Otitis
Media the Syndrome of the Posterior Fossa
J L ry gol & Ot 1 9 vl 6 6

The author reports four cases in which paralysis of the lower three or four crunal nerves resulted from oth media. Involvement of these nerves may be combined with paralysis of the sixth and seventh

Gra lengos syndrome is assumed to be due to an extradural non suppurative inflammation. The lower crainal nerves may be affected in a similar manner by inflammators trokkening of the durinater surrounding their points of evit from the crainal cavity. Symonds cites a case in which such involvement was proved at autops. The prognosis seems to be good. Mayrord R. Waltz. M.D.

De kleijn A and Versteegh C Some Remarks upon the Present Position of the Physiology of the Labyrinth J Laryr g l & Otol 927 viu 649

The author findings in studies made on rabbits are in absolute contradiction to current views on the phy 1310 v of the labvrinth

After extripation of the entire saccular macula on one side the rightis showed no spontaneous vestibular disturbances and all laby righting reflexes could be evoked normally. Therefore in rabbits the syccular macular are not responsible for the known vestibular laby rinthine reflexes.

When complete extirpation of the labyrinth was done on one side and partial extirpation on the

other only to semicircular canals being left to function post rotation nystagmus in all hiertions hor zontal vertical and rotatory could be e oked

In clin cal c  $\,^\circ$  f ce chral le 10 s st vas found that the stronge t post otat on nostagmus st but in which the qui k c po ent at the side of the extirpation of i on I cvs of cereb lire lessons this st in 1 absent  $\,^{\circ}$  W v. c  $\,^{\circ}$  I W v. T M D

Po tmann G The Succus Fudolymphaticu nd n Ope t n fo D 1 ng f the R lef fler t go / A \ M d L d 9 86

#### NOSE AND SINUSES

Finck HP T su Clinge in the N sal Muco a P I m norty Rep t L v g p 9

In acute asil conge ti mic oscopic exam at no fthe nissal in con a calis ordena in a crease the mo ucle r c ll da deno te in rease in the cosinophile but no e of the classial i, as of bacte al i fectio. In acute p ul ni th ni t tle lympho tes a e m ke ll vin easel but the e in ophil s and cadema are lecre ed. Chr. c purulent rhi itts shows t su l'yert ophi and n in ease of lymph delements in d li mic cell. In the e puru lent condition it u ually bifficult t demo trite be tei an intet sue.

Va moto hint i characte iello ac'l ma ani a marked e 1 e i the cosm philes In asal polyps vano s cell I types 1 e i und I pendi upon the chiracter of a c con trait masal le too Cy the polyp di mati si lu le muc ele eso theirile t t and esst dege erat in of polyp The tsue adja e to uch formations hiv limph cytes plasm cell and connecti e t sue chang s in atroph c cond to most fit en all muco a there a definite reduction o d app arace of limphod elements coil phile and lotter filtrat g cell

In the m jority of ts changes the sign scant cell re the lymphocyt plasm cell and eosino ph les Lymphocytes nd plasma cell pe il in purulent rhinit sond eo nophiles in somotor an l anaphylactic o dittons

CE ER MC1 LI MD

#### MOUTH

Doubleday F N On Chon e Fuso p II y Infetn f tle P odontal M mbrane nd It T atment I R S H d L d 97 x 39

The uthor d cus es chr c peri dont tis t destruct on of the memb ane and bone I us form

tion occurs only when pyogenic organisms are pre-ent Two organisms are found constantly—the spirocheta dentium and the bacillus fus forms Doubleday report three cases

The local treatment consists in scaling followed by the instillation into the gum pockets of a drop or to of s per cent chromic acid and layor hidrer peo old. This instillation i repeated two or to e time celly for about a month. It causes the form to no fc monum sesqui could end in the presence of o much free oxygen facultative a ser old scan ot its. Another the control is sean of its value free or men service in the service is sea to the value for the service is set in the service of the sea of the service is set in the service in the service is the service in the service is set in the service in the service is service in the service is set in the service in the service is set in the service in the service is service in the service in the service in the service is service in the service in the service in the service is service in the service in the service in the service is service in the service in the service in the service in the service is service in the servi

G ORGE I MCAULIFF M D

Jobson G B Tl e Surgical Cor ection f Cleft Lip and Cleft Palate 1 / O/ 1 3 g l 10 7 434

The auth r deals th the complete deforming the lp as d palate. He prefers to repar the high fist. The loes after the three dweek and not letter than the furth meth. Early operation 1 advasable as the pem's Ha a 1 ome bee me accreasing with cult mould. Mere the prema illa has bee gradually for d into place by the constant 1 pactor there 1 improvem that the mean letter 1 improvem the the the mean letter 1 improvem the the the property of the pr

core trenogram of the thymus should be taken all a veat ent and cated by takould begin in the authors are practed in the authors case the lip cheek and north are operated in the numbers. Done at later app of meter in the necessary at ele haped piece of the pemax livas resected to fue I tate cloue e For cleft palate the mucopenostacil operation is done. In contemporary the number of the pemax livas resected to fue I tate cloue e For live in the properties of the pemax livas resected to fue I tate cloue e For live in the properties of the number of the numbe

by the packs and vereme ed the heptics.

The second path of the correction may be doe by any of the recognized method of mucope joisted flap oper tion but the util or nefers the von Laugenbeck procedure vith suitable modification.

Longenbeck procedure vith suitable modification.

Control Metaliff M.D.

H riske J A Tle Impotnce f Ped tic Cae in tl Ope twe Te tm nt f H elp and Cleft Palate J 1 1/1 971 1666

The autho d scus es the var ous facto so imp r to ce in the pre operatice and postoperative teat ment of c ses of h relip and cleft pilate. He an phas zes that f u iformly gool re ults a c to be obts ned these cas s should be u der the care of a pred after an

The most important p oblem is the feeding. The putie t sho ld be treated in a hospital here a place l technique for feeding can be sed. B bies h

harelin or a cleft of the hard palate may be fed with a rubber car syringe Occasionally gavage is necessary

Roentgenograms of the che t should be made in every case chiefly to determine the size of the thymus Kednetion in the size of the thymus can be obtained by roentgenotherapy

In a series of 103 cases controlled by the pedia trician there was only one death

W M PATON M D

Some Physes of Intra Oral Tumors with Special Reference to Treatment by Radia

tion I id I gy 19 7 ix 359 nam C F Radium in Intra Oral Cancer Burnam Rility 97 366

Duffy J J The Cervical Lymph Nodes in Intra

Oral Carcinoma I idi l gv 19 / 1x 373

EWING di cusses intra oral tumors from the stand point of structure growth and metastasizing tend encies with special reference to their susceptibility to irradiation. He deals at some length with cancers of the lip and tongue conthehomata of the alveolar rulge and tonsil lymphosarcoma of the tonsil and pharyny tumors of the nasal mucosa neuro epithe homata of the superior nates carcinoma of the maxillary antrum and tibrosarcoma of the perios teum of the superior maxilla Mention is made of individual peculiarities of the various tumors which in large measure determine the treatment to be applied Pathological data bearing on the control of the lymph no les in malignant tumors in and about the mouth are also considered. Observations tend to show that the common mode of extension is by embolism therefore the extreme surgical procedure of removing the primary tumor and the nodes en blog is not indicated in all cases. Because of the results attainable by ra liation the practice of leaving the nodes until they show clinical signs of involve ment scems to be justified. As ulceration and infection accelerate the progress of the neoplasm and multiply the complications care must be taken to prevent them as far as possible and control them

when they have already developed BURNAM considers only epitheliomata of the mouth He di cusses their pathology briefly and advocate biopsy for diagno is He classifies them according to their site of origin and calls attention to their great variation in malignance. The appli cation of radiation to epitheliomata in general is dis-I rom his own observations the author concludes that epithehomata of the oral cavity do not require any heavier dosage to obtain lethal effects than those of the skin the lip or the uterine cervix

Surface applications are used to advantage in superficial lesions In the author's cases the treat ments are given in a single atting whenever possible When implantation is chosen gold covered emana tion points are buried in the tissue and vithdrawn after the desired dosage has been obtained. The filtered tube do not produce the necrosi or the pain caused by the bare tube technique. It is possible by

this means effectually to eliminate epitheliomata of considerable size almost without pain and without deformity In cases of deep lesions surface applica tions are often of supplementary value to the im plantations

As regards the field of applicability of radium Burnam is of the opinion that any lesion in the mouth which can be cured by surgical extirpation or electrocongulation can be equally well cured by radium

DUFFY states that the chief essential in the therapy of intra oral carcinoma is treatment of the cervical lymph glands not only in cases with metastrises but also in the earlier stages when no cervical nodes are palpable. Prior to the use of irradiation the treatment of choice was surgical removal of the adjacent lymph glands with the primary lesion Since then conservative treatment by irradiation has been favored and the results in cases irradiated in the period from 1917 to 1924 indicate that this treat ment is a rational one ADOLED HAPTUNG M D

#### NECK

Martin K. A. The Conditions under Which Iodine Will Cause a Change in the Basal Metabolic Rate in Man 1 Its Occurrence in Conditions Other Than That of Graves Disease Im J M Sc 10 clarin 678

The beneficial effect of jodine in Graves disease is well recognized. The course of this disease under iodine therapy has been fairly well studied but the mechanism of the temporary fall in the basal meta bolic rate and the clinical improvement is not clear Plummer has supported the theory that in Graves disease the thyroid gland produces an active agent abnormal in quality and quantity which is respon sible for all of the manifestations of the disease and is either neutralized or inactivated by iodine. The only other theory is that advanced by Marine who believes that nodine cruses within the thyroid a rapid accumulation of colloid which brings about a pressure retention sufficient to block the excessive secretion of the gland

Marine's theory suggested to the author that it might be of value to study the effect of large doses of todine on the basal metabolic rate in clinical conditions other than Graves disease For such a study he selected cases from the New Haven (Con necticut) Hospital and Dispensary and divided them into the following five groups

r Cases in which there was an increase in the basal metabolic rate not due primarily to thyroid disease-cases of leukemia polycythemia and primary anymia Cases of postinfection diseases

3 Cases in which the basal metabolic rate was normal but the rodine content of the thyroid ap peared to be below the physiological limit

4 Cases in which the basal metabolic rate was below normal-cases of hypothyroidism and myx ccdema

A group of normal controls

The basal metabolic r te vas determined by the Roth Benedict closed circu t method As soon as satisfactory readin 5 we e obt ined the patients were g en 5 drops f Lugo! solution by mouth three times a day. The basal metabolic rate was then checked at intervals of seven and fourteen days It was fo d that an changes could be detected with pactic lly the same degree fice tainty hen the determin tion vere at thes in tervals as whe they e e made mo e frequentl

The t enty n e subject studied i cluded f ur normal cont ols to patent ith small ell l m phatic le kemia four th pamara anemia t o

ith polycythamia to ith ac t rh umatic fever in the afebr le tage sev n ith simple go ter and symptoms find e dencency thee ith hypoths roid sm including myxcedema II of hom had received ther thyr id o todi e ther py a dif e ith hypothy o dism i cl d & my roed ma wh

had of rece ved thy old or odine therapy The article includes g aph c chat hich show

the varying influences of tod e therapy on the df

ferent g oups The namal ent of sho ed no appre ble cha ge in the basal metabolic are during the peri d

of obs v tion In the cas s of simple g ite ith symptoms of odined to e cy the as a mole ate love g f the basal metabol c rate du g the fir t week 1th

alghtri d n th se on lived In the case of hyp thy dem and my α i ma

ith privious thirapy thire vas n appricable In the cae f hypothyroil m nd my celema

ithout previous the rapy the basal met bolic at ho ed a marked increase in both the f st a d second vecks

The c ses of p many anama led a markel and constant fall from an ince sed basal metabolic rated n the periol fob ervati n

the thr cre frhe matefe e sho d an i creas ib I metabolic ate thicl f ll ap llt un ler the d therapy

lt 1 this sicted g up f cas that the b alm tabol c te can be male t h also in conditi n th than ( ave ds ase by th

admin t at on of sodi e The change s ot raid

and tran e t but slo and last ng The manner in which the take of iodi e in

flue ces the basal metable t trae disease is still unde I cus on Re h fand Marine ha e r p atedly sh wn that after the admini t ation of i dine in large d ses a hyperplastic gland is e a

verted into a colloid goiter the al coli become d tended vith collod and the lini g epitheli m is changed from a high columnar to a low cubordal type Su h a histological picture sug ests that the sec eting port ons a e unde pressure and hence the amount of there n sec etel is markedly dim nished

Sturges h s sh n th t rodine has no effect on the touc symptoms induced in rabb ts by the nt a venous 1 1 ct n of thyrox It has been sho n also the tiff the chemical mpo tion of thy roun is changed it has no effect o hat production in man If the change th amptom we due to neutral z tion of th toxic ub tin e by the act o of 1 dine the bange ull the teally be contant as lo as the iod e m dient as contin e l

The m st mark d eff et is i luced hen the iodine is gi e in ompa t el l rge do es o er a ho t per od of t me If mall do es are gr en over longer p iod the t it o from a hyp plast c gl n l to a colloid st te 1 so g adual that the f ne t on of the thyroid is not I turbed. The e tent to h ch tod e v ll aff ct the l sal m tabol c rate seems to hav v deinte relat ship to the ability f th glan l t sto lin quickly regard less of the p esence all since of traves disease

Tebbutt A II and Woodlill V R Ab rant Thy old T sue If d J 1 / 1 o 7 5 pp 12 D 358

The uthor eve the l elopm t of the thorid f m th t l m l n tp keting f phas cal pth lim at the bas of the tingual dicte us authoritic egard g the pell o g of the late I lobe fr m the fifth ph y geal p uch

It is blive that i hypoplisa fithe thy delegion delp l gl fr minter excular group fithy dell fepith l l type h h r penting the gilliecell arent lirts btrseeoffilliffret teith deell

Its ue the lat al Acces to abe nith lat d t the rmal the roid lb and us alle do ered 1 n I db apth lo scal dition pr b bly has an og other the the mill e oc f that decells. The ather properties of p thologoal cha ge n sucl aber ant thy ad to se

The one n dr nthat mean temby me the thr I olumns ne xcc is mg atory lif the thir t olumns a e xcc a detable b utlying of l n close sociation th the cer clivmph tot ue hich ultimately I e their c c tion ith the thyroid gland

JH MERN LYMD

## SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVFRINGS CRANIAL NERVES

Del Rio Hortega P and Penfield W Cerebral Cicatrix The Reaction of Neuroglia and Microglia to Brain Wounds Bull Johns Hopkins Hosp Balt 19 7 vt. 278

The authors investigated the healing of bruin woulds in rabbits and dogs by micro copie study of sections prepared by the methods of Del 1 in Hortern for microglia neuroglia astrocytes and connective tissue. The lesions were useptie stab woulds in the rabbits and more extensive cerebral injuries in the dogs. The duration of the injury ranged from twelve hours to seventy three days in the rabbits and from twelve hours to six months in the dogs.

The first cellular change was observed in microglas cells which began their phagocy tic activity enjly and continued it for a long period of time. Later the neurolia astrocy, tes about the wound became swollen and those closest to the area of destruction or to obliterated vessels underwent clasmatodendrosis. Rapid amitotic division of the other astrocytes then occurred and the cells became fibrous and arranged themselves typically, in a radial fashion about the wound. A connective tissue core formed at the center connective tissue collagen fibrils were laid down and the wound contracted. In stabs where no tendency toward a radial arrangement of the astrocytes and no evidence of contraction.

Compound granular corpuscles were numerous in the wounds Fransitions from microgin to these cells could be seen but there was no evidence that the astrocytes became mobile or developed into these cells When the products of degeneration had dis appeared from the wound microgin in its compile cated shider like form appeared in the serv

cated spider like form appeared in the scar

The report of the authors findings is preceded by
a brief review of the literature

FRIC OLDBLEG M D

Lewis D and Lee I' C On the Glandular Elements in the Posterior Lobe of the Human Hypophysis B il Johns H pk ns H p B lt 197 lt 221

The authors have made a micro copic study of serial sections of thirty human hypophyses ranging in age from those of newborn infants to that of a subject seventy three years old

They conclude that glandular tissue may be lound in the posterior lobe at all ages but definite tubu loracemose glands communicating with the hypo physeal cleft are not found after the fourth year fubular glands may occur in any portion of the posterior lobe Their cells contain a colloidal sub stance similar to that found in the space into which the gland empties

Basophilic cells closely resembling those occurring in the anterior lobe may be found in any location in the posterior lobe. Their number increases with age

The authors discuss briefly the relation of the glandulur elements to each other and to the physical ology of the posterior lobe, and review the indings of other investigators in the field of posterior lobe histology. The article is supplemented by a number of drawings and photomicroscraphs.

I RIC OLDBERG M D

Carcin R The Syndrome of Unil) teral Paralysis of All of the Granial Nerves A Contribution on Fumors of the Base of the Skull (Le yn Ir me paralytique un late al global 1 s n. f. cronten co tribution a littude de tumeu le la base du crane) 1 r sse d Par 19 7 xxxx 1137

Multiple paralyses of the cramal nerves on one is le of the head group themselves clinically into a number of topographical syndrome which are dependent upon the Issons about the various cramal foramina. The author reviews the syndromes of the sphenoidal fissure the external wall of the cavernous sinus the petrosphenoidal fissure the apev of the petrous portion of the temporal bone the internal auditory meature the apev of the petrous portion of the temporal bone the internal unitory meature the apev of the petrous portion of the temporal bone the internal on the properties of the petron of the properties of the prop

These syndromes do not exhaust the possible combinations of unliteral crannl nerve involvement but they are sufficient since together they cover all of the paralytic symptoms due to lesions of the bony floor of the skull llowever as their crue e is neoplastic they often overlap the extension of the tumor tending toward rapid fusion of the interme drift syndromes. This is true especially in cases of neoplasms arising within or developing in contact with the hase of the skull.

From the etiological point of view the basilar nonlinear by the classified into two man groups the subgrainal and the basilar tumors. Arising as a rule in the rhinophary ny the former extend toward the base of the skull which they perforate Garcin reports seven cases in which such tumors gave risk to multiple unilater it praily see of the crainal nerves. The basilar tumors proper grow at the expense of some element of the bas of the skull. Garcin reports ten tumors of the latter type which caused multiple unilateral paralyses of the crainal nerves.

Whether the tumor is a subcramal or a basilar neoplasm the tendency toward the unlateral diffusion of these extensive multiple paralyses of the crimial nerves is associated with absence of signs

of 1 tracranial hype tension (papillædema etc.) and absence of signs of motor and sensory di turbances in the c tremities

Among the basil r ne plasms there 1 however one group which 3 un que—the sarcomata f the base of the skull. These are manifested climetally by a chara ters tie: volr me hich the autho with Gullain a d VI y uan e c ll the u late alpa a lyte syndrom f ll of the ca after e. This sindrome 1 character el by (1) a obsement of all of the cranal in e on ne site (1) also ecc of signs f intracran 1 hyperten on (3) absence of signs of moto or ensiry d turbances in the etternities in l(1) po tile entigen may evide cool else ins of the box of floor it the base of the kuff

This picture i not except nally rare as G rein say f ur e ses lui g hi e ile ce in the h spital I two the liag s a c nfi med by po tmo tem

exami at on

The chinical picture of multiple unlisteral parallyses of the ca 1 ne is so that cets at that the pre nee fa de lopang bail r proces is gested imme hately but if it a heater in night i thought of and i m st of the cae a coule for mercury a lar enn has beeg at one time. The sign of hyp rt nio are so 1 ht that a tumor i rarely colored.

Unlate al und e te si e p all es of the cran il ner e may be cu d als by t uma e n ltu a socat d the r pithalm lasil men gus in perully that d to phil n micrut i types of polyneuit of the camal merves but the three ception of the edue to phil t emenant is they are 1 is so e ten e n i the unlateral prabtus so ndrome of ll fithe c alse e

In the lag s f remata f the ba e of the shall contgenog m are of geat value a lpe m t early radiat treatment Irradiat are ests the spread f the con litt f r als a hort time how e er as the arcom tare e ye sstant t

MC SF M M MD

Ret og serian neu t mv or ecti n f the se o y tunk of th tr fac al ner e bove the gt e r an gangli n be gg enp ef ece er rem il of the g gl n beca etts t hn que is e si nd because t does not esult eurotrophic d tu b an es

the changes in the gan lion up to t enty five days 1 mine of the animals and up to thirty seven days n o e animal. The at the includes photomicrog anh of the ht tologic I changes

The pe at on esulted a complete n ensit we ess of the he reg on uppled by the te fac all neve but in no instance preduced neurot ophic che g the ve Vary ng de rees of cha ge ere fo nd

in the ceff of the gr gh

Scalone conclude that I to gasseria neurotomy ill not cau e neu palyte k attit if it its per tormel with the proprit hique and cau this alt on de occu till be tran tor, till cells of the gaght has ebee only slightly ngued o permane tit they hive ben bith j d. The root muit be ect on land to tor and the tilg mast be lone f f mill g hip bible.

Fraz e C H Tigeminal Neur ig Fou teen
Y E pe nee n ti Fra 110n 1 Sect n of
tie Se s ry Root s ti Maj r Operation J
4 11 4 97 1

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latient use g f om t gemi il eu li re usuull te ons fa high st gnatu. ho d t tand ell the tre and train f hi n liuss and f et x all m tte Apprehen o sto hathen t ttack ill occu ea the out as

much as the part if

Inth d gnost the ett noftlepat tt the proal foprit of reat ids if the condit it treem in uralgah il readit con too ope attonee h form d the subspicent uraboes fithe fem the developers with pain le he lib itate toes te cum t fithe facil umbin s

Into a free tince see jene the procedure the authop proposed subtot let of the sen ovrot of the grass ganglo a but the title to that for the true for the phologenetic dembry let age to distinct to the garginary for the gradient of the following the following

As one ally proposed both l sect n f the sensory oot one sted in section f the oute two

thirds with conservation of the ophthalmic portion. The primary purpose of this modification was to

prevent trophic keratitis

The failure of this operation to be more generally adopted in spite of evidence that it prevents one of the most annoying complications of the major operation is attributed to assumed difficulty in its execution and the fear that it will be followed by recurrence. In answer to such objections Frazic describes the technique showing that it does not prolon; the operation by more than a few minutes and states that since he first adopted the method in 1915 he has not found it necessary to re operate in any case.

Frazier is becoming more and more convinced that if in the early stage of the disease the pain can be controlled in the branch or division tirst involved permanent and complete relief will be obtained. He calls attention to the fact that at the outset tri geminal neuralgia never involves more than one branch of a single division and that as time goes on the pain spreads to the other branches of the same division and finally to the other divisions. I ater in the course of the disease when two divisions are involved it is almost invariably the case that in any given paroxysm the pain does not appear simultaneously in both but starts in the division in which it first developed and is then referred to the other division. Moreover it has often been observed that an alcohol injection into the division first involved is sufficient to control the pain in both divisions

Therefore I razier now sections only that portion of the ganghon which contains the fibers destined for the nerve which supplies the site of the original pun

Because of the preservation of a portion of the sensory root the area of annesthesia after the operation is relatively small and possible areas of paræs thesis are reduced to the minimum

GILBERT C ANDERSON M D

#### SYMPATHETIC NERVES

Roubscheff S The Results of Periatterial Sympthectomy Actording to an Inquiry Made Among Russian Surgeons in 1920 (Resultate de la sympathectome prant rielle d apr s une en quete faite en 1976 parmi les chirurgiens Russes) Re de dir Par 1977 | 7 | 7 | 7 | 11 | 3 | 4 |

Of the surgeons who replied to the author's questionnair regarding periarterial sympathectomy, that't five had performed the operation. The total number of operations performed by them was 203 The conditions for which it was done were gangrene ulcers of various origins causalgia perforating ulcer of the foot Rynaud's disease articular tuber culosis chronic osteomy, elitis arthritis deformins the congenital myotonia of Thomsen contractures and dismenorrhea

In articular tuberculosis the results were negative Of the thirteen cases of chronic osteomyelitis only one seemed to be benefited

In arthritis deformans the congenital myotonia of Thomsen and contractures the results were neg

Dysmenorrhoa was relieved immediately

Of twenty nine cases of crusalgia sixteen were cured and twelve were definitely benefited

Of the cleven cases of Ray naud's disease a definite cure for at least a year was obtained in five and improvement in three

Perforating ulcers of the foot were cured in four of six cases

Of fifty one chronic ulcers of various origins all of which were located on the lower extremities rapid cicatrization resulted in about one half but complete and permanent healing occurred in only about a fourth

Lift, nine of 118 patients with gangiene were at least benefited immediately after the operation In fort, two the result was negative

ALBERT I DEGROAT M D

### SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Pagets dis se of the nill quently in omen about it iv a f 6, In m tirre It s har te izel by a c t d le le non of the npple or a la h h nit ly cours may be as ociatel the Ill d d hig from the nipn! The dicharg my ocur n bef re any skin manifestat o i prent Ult mately the londer of the second of the length of the short side of the length of the length

D'ur local ed the path lo al change the pletmis He aft is tristoch the lare ound ell for cocc dia but lat cal edd he o He goup duder the gener ctern dysk ato s fou d'il en adect n-lagets d'e e D'ne d's e m llu cum cont no um n f B n s d'mat —clas m s, that th a e all hvat e el but he presence f larg cli () lat d'malophan cell hich different te i om ther n ighbo du nie go d'y dual m ph lo 1 al and la lacal cha g I llo n D are lead mot F ch de m tolog t ccepted the term diske at I and looked upon largets d'asse sa condut n shich m y or m'y

not terminate n care noma H st l ically laget d se s cha act ized by the presenc n all of th lay r of the epd m f num rou la se abno mal cell h ch the uth r c ll laget cell These e la ge ph ical c lls devo d of inte cellula baid e atl clear est pl sm and lag escular often hype cl omat c ucles sho in sev al nu l ol Karvoki e s is ireq t an I may be at sp cal nd multiple Th cell app a to reach the uppe I ver of the sk n by act ve inva ion f the epidermi rath r th n by b n car dupy adb the su unding cells The so called mantl cells so often der thed at n real ty malpighian c lls h ch la ce n aded by th Pa t cell The large ou o often em phasized n desc intions f i no mally kerati ized ep Jern are ab laer ely s r ed be present No t an it on las e

n tl epilerm I cell and Pa et cells As no î tî I ch n can be detected between the 11 I in the condition and those found 1 n ma s fr nkly present it does not appear 1 t 1t un that the cells may at one time be Łξ tl a i to be in the ea ly sta es of d i t become malignant in the th 1 th I at d ease shuld not be in 1 1 1 the 1 k atoses a d is surely car t mth l g n g tl r 16 ee th V sson that the condition

th it the tif rou ducts In an exty the third third the third t

In the ski in the substitution of the authors cate along the cate that the cate of the cat

mabguant lesion Moreover in addition to the effect it has an unfavorable influence upon the blood and the rest of the body. In support of this conclusion Iselin cites experiments he carried out on rats. Although the rats were protected by thick lead tubing and only their extremities were irradiated a decided infiltration of the cornea was found later.

In Iselin's cases of breast cancer the postoperative irradiation is begun early as soon as the patient has recovered from the operation—usually during the first week. Iselin has never cen any harm from treatment begun early At first he gives one Sahou raud unit at a sitting beginning with the irradiation of the supraclavicular and infraclavicular fossa and axilla from both the front and the back. The irra diation from the front is done with a filter of from 2 to 3 mm of aluminum and a distance of 24 cm and that from the back with a filter of from 3 to 5 mm of aluminum and a distance of so cm At the end of the first week the irradiation of the under coment of the side and of the whole hack is carried out Three weeks later a second irradiation is given on the attected side with the use of a filter of from to a mm of aluminum

The general condition is always con idered in determining the rate of irradiation. I ollowing the second irradiation of the aliected side the treatment of the normal breast is carried out. For this

a 2 mm lilter is sufficient as a rule

After the treatment the patient is kept under close observation for a period of years and is cen at frequent intervals usually every month. At each visit a careful physical examination is made. The pre ence of interco tal neuralgia is of importance as it often denotes spinal metasta is. When recurrence or metastasis occurs the use of weak filters will cause the skin to hreak down. Both the filters and the irradiation must be strengthened. Iselin reports the following results.

A patient operated up in in 1904 had carcinoma tous metastases in the supraclavicular gland in 1906. She vas irradiated up to the point of slight injury of the skin. I'v o small recurrences developed in the car. One was excised and the other triadiated. The patient has now remained vell for

twenty years

In two other hopelessly inoperable case sequally good results were obtained. In another case, the patient was operated upon in 1976 for a rapidly spreading medullary carcinoma. The progno is appeared to be very unfavorable but the patient is still alive. In this case no irradiation as given lesson explains the cure by assuming that the inflam matory reaction from the operative hock, o stimulated the cells of the body that the carcinoma cells were distroyed.

A ca e 1 cited al o to show the importance of the resistance of the no mal tis ucs surrounding a car cinoma.

With the use of the technique described I elin was able to obtain 50 per cent improvement in the

results of operation in the Brisel clinic in the period from 1906 to 1913. In twenty eight cases which were not irradiated immunity from recurrence and metastasis was obtained for three years in 18 per cent and for five versus in 12 per cent. Of the irradiated cases—twelve with a radical operation eighteen with a non radical operation and six with a recurrence and glandular metastases—immunity was obtained for three year in 30 per cent and for five years in 30 per cent and for five years in 30 per cent and for five years in 30 per cent. In 102, seven of the patients who were treated by irradivition in rots ver in gool health two had died of cancer and three had died of other discusses or old ag. Of the patient still living none had had a pure sourthous carctinoma.

I ebn has found that in inoperable cases \ ray treatment often renders the case operable

ALTON OCHS TR M D

#### TRACHEA LUNGS AND PLEURA

Mandelbaum M J Reverse Tracheotomy (An Original Method for Rapid Tracheotomy with a New Instrument) Preliminary Report Lary g scope 13 7 xx 1 8 7

The author presents an original method of rever e tracheotomy which has been tested on animals human cadavers and patients. The reverse tracheotome is a sevithe shaped hollow cannula curved on its long axis in an arc equaling about half a circle. At the upper end is the handle and beneath this is the cannula opening through which the knife end of the shaft is inserted.

The patient is operate I upon in the sitting or Iving po ition. The operator uses his right hand to pass the tracheotome while his left index inger is in serted over the dor um of th tongue to hook over the epiglottis and thus fix the larvin and from there is forced hetween the vical cords to emerge between any of the interspaces of the upper three or four tracheal rings. After the skin puncture has been made a proper tracheotom, tube can be inserted.

By this procedure severe harmorrhage asphrua tum unsatusfactory trachcal openings and sertic pneum mia or lung ah cess may be avoided. The in ertion of the tracheotome into the esophagus may be avoided by (i) passing the instrument between the vocal cord by direct or indirect vision and verifying its pire ence in the tracheal canal by feeling its distal end between the tracheal rings or () placing the ear near its upper end to determine whether air is coming through the tube.

The author does not claim that this method should replace the classical operation but offers it as an additional procedure which under certain conditions may prove of value Groke R Mc Malfr M D

Smyth D C and Schall I eR A Pneumography
by Lipiodol Its Present Uses and Limitations
B st M & S J = 92 | exc | 11 S 91

The authors state that there is no simplified method of using iodized oil to obtain information in obscure lung conditions. They believe that iodized

oil should be employed in of on e conditions only when other diagnostic method have failed

In the Tho acic Clinic at the Massachusetts General Ho pital patients with tube culo 1 are not subjected to broncho copy or X ray examination with the use of I piodol

In the dagnosi of lung at ce lipsodol has not proved of mater i ass tame. Aboe s causties usu ally communicate imperfectly, it the b nchi. The introduction of ol after the spirat in of pur from the terminal bronchu vas ften follo el by mass ng of the oil which was erroncou it into p tede. Experiments on dogs have lem nt tel that 40 per cent of lung nycted with lip dol show the picture of pulm na y ab cess. S lutions weak enough to pre ent massing et too east eat shado's

In the method no u ed by the auth s the oil s int odue di not the ma i bronchus t body tempe a ture following thorough cleans ng by broncho copy and the patients is then placed a po into in hich ill cause the oil to enter the desired a portion inch ill cause the oil to enter the desired as In truck lug abscess it has been fun il impossible to ol tun fluid levels and to date only two cas has been seen in hi the ab cess commin cated the the bronchus so that di cet bronchoscop c ex min tion as possible

Bron hi cta s a d stenosis c n be ea ly d mon strated by the use of the oil but b smuth ubca bo nate no de give better d line tio

In the authors op nio any c se obscu e e ough to re ju e pneumography as n a dt diagno is obscure e ough to require diagnost c b onchoscopy and f the tv p ocedures the ltte i the more important at the present time

WILL ESI L MD

#### **ESOPHAGUS AND MEDIASTINUM**

l ieden vald J Zinn W F and Felden 1 M
Can e of the Esopingus 4 J II S 97

Cancers of the resophagus con titut 1 erv con siderable pe centage of et compants of the gastr intesti at it et their report d fr que ev a ging from 5 per cent (cuttan 1) to per cent (forts). This rt cle is b sed on a study of 8 cosphag ancer ecuir ng 1 600 e se of en enoma fibe pristo intest nal tract

The diseas is m st common but een the for tieth and st th years fage but has leen kno n to occur before the fortieth va The we age age at hich t de elops s the iftr fifth year i mal s and the f ty eighth year n femal s (lur er) it is from f e to seven times more common in males

than I females
The gr th s usually located at on of the pbys
rolog cal narr ings of the cas pha eal lumen—
the entrance of the exosphagus or the aortic b on
chall or d aph agmatic contict on V isson and
Turner gree that in female the growth is four d
more to mmouly not expert the dother companies to the companies of the cases phagus
thereas in males it is usually situated lower.

Squamous celled ep thehomata and aden carci nomata constitute mor than 90 per cent of ceso phageal tumors (Esophageal carcinoma 1 u ally prima y in the cesoph gus but occasionally may he s condary to care nom of the pharyn thyroid or card a It attacks the mucosa first. Later it spreads f om the superficial beginning to involve a large po tion of the es phagu Its d ection of growth may be long tudinal or e tical I ent ally the o sopb geal lumen be omes occluded and Type tropby and dilatat on occur above the les on The tumor cell 1 ade the out coats of the es phagus and e tend to th surro nd ng structures and adhe sions form bety een the asophagus and these struc tures Infltration f the cervical glands and some t mes of the left supracla c lar glands may occ r early The tum r may perfo ate into the bronch I ngs aorta o per ca d'um and m v form metas t ses in the lungs pleu a spine and thyrod Hamorrhage from the ero 1 n of a essel safr quent ca se of leath

ca see of teath
The early symptoms f cancer of the cosq havus
are vague and u rt n Before there i any niter
outs of unusual tensati ns in a fallowing and a lump
outs of unusual tensati ns in a fallowing and a lump
in th back be eith the supho I cartilage r in the
should or abdomen a cough inccup and neressed
mucus see et u i the thr at One of the m t
pron nent later symptoms s dwsph gna In its
early stages the isysphag is usually intermittent
and can oed by hy spa m I aris ull crattor
may be espo spile f; the guggnation f small

may be espo sible it the egurgation is small mounts f bld and the appea ance of blood in the st ofs I as cou h and hoarseness a e u ually I s simptoms. The author seport a case in his cough and harseness we eet it sympt ms but the easnop nod by high at ant time. Even tually the cond tion causes in insepai and seve and progressive dit feulty in degli tit on Diatation ab we the obst uct on sight expensive the country of the

Cancer of the exsoph gas sh ld be suspected he there i a omplant eg dig dig tin ne pe il va the e cola mie frivari di hi ly pocedur sin e sarvi fithe ly ld goo si are roentgen i vamination a des phagos copy. Co ohago py sh uld al avs by preceded by the ose py. Und the she ose pe the a lest sign a slight i e ul ty i thut dil vof the bim. Discomfort fequant as the barum cehes the low films e uns tissfactor in the

tu s still othe symptom are pr duced

h et ges (Es phagosc p) giv s th mot ac urate nfo matin but snot ithout din erap f atton may re ult tom the in trumentat o it is of advant me f diet vi ual zat on and the removal of piece oit suse for blopse.

According to Jack the nd c t ons of arly cancer as seen on esophagoscopy ar ( ) ab ence

of one or more of the normal radial creases between the folds (2) asymmetry of the inspiratory enlarge ment of the lumen (3) a sensation of hardness of the wall on palpation with the tube and (4) failure of the involved wall to wrinkle readily when it is pushed upon with the tube mouth

Other characteristics emphasized by Jackson are a tendency of the esophagus to bleed rigidity of the ce ophageal wall and absence of dilatation above the lesion except in the advanced stages of the

In the differential diagnosis the following conditions must be ruled out benign strictures such as those caused by the swallowing of caustics syphilitic strictures simple ulcers with stricture cardio spasms with idiopathic dilatation of the esophagus and external pressure on the esophagus from an aneurism mediastinal tumor or affection of the

The prognosis is always poor but the squamous celled epithelioma is less malignant than the adeno The duration of symptoms averages four and a half months but ranges from three weeks

to two years

The immediate cause of death is manition cache via perforation or bamorrhage due to the ulcera

tion of a large vessel

When the diagnosis is estable hed surgical inter ference must be considered Removal has been moderately successful in a few cases and its results would undoubtedly be improved if the patients came to operation earlier Gastrostomy is the best palliative procedure but should be performed before the very late stages while the patient is still in good condition It gives great temporary relief and pre vents death from starvation

Dilatation with bougies is of doubtful value and associated with the danger of perforation Radium and the roentgen rays give little relief The use of

radium has caused perforation

The diet should be regulated to prevent irritation I alliative measures are advocated since radical removal is associated with great danger and only a remote chance of success E S PLATT M D

Currington G L Experimental Surgery of the Esopiagus 1:15 g g2 l xxv1 505

A number of approaches have been tried for opera tive work on the œsophagus. In the neck an in cision along the anterior border of the sternocleido mastoid muscle gives satisfactory acces. In the chest the long intercostal incision popularized by Torek and the posterior me hastinal route are used most frequently A few surgeons prefer the anterior route removing the sternum

With regard to the necessity for drainage there is a difference of opinion Some surgeons establish air tight drainage while others close the wound air tight without a drain Maintenance of lung expansion is

of first importance as the pleura seems to be more easily infected in the presence of a pneumothorax

In the technique used in the author's experiments on dogs the esophagus was encircled by narrow tapes placed 2 in apart and drawn tight enough to prevent leakage but not tight enough to damage the muscular coat Next an antiseptic solution was injected through a small incision or by means of a Lucr syringe and left for a sufficiently long time for steribzation The esophagus was then cut and the anastomosis made with a row of continuous sutures through all of the coats a row of interrupted Lembert sutures through the muscle and adventitia invaginating the first row and a row of 6 interrupted Lembert sutures through the muscle and adventitia to relieve tension

The results were successful in 50 per cent of the dogs on which this operation was performed by the cervical route and in 33/4 per cent of those on which it was done by the thoracic route Strictures were avoided by establishing the anastomosis with the viscus fully expanded. Marginal ulcers at the site of the anastomosis were caused by the sutures in almost all of the animals but Carrington considers silk better than catgut because of its durability The chief problems in esophageal surgery are the prevention of tension and infection

CRESTER L CREAN M D

#### MISCELLANEOUS

Melville S and Others Discussion on \ Rays In the Diagnosis of Intrathoracie Growths B ! W J 192 11 7 5

Since the roentgen ray has been used in the exam ination of chest lesions the diagnosis of intrathoracic

growths has been greatly facilitated
Of benign neoplasms the authors discuss fibro
mata and teratomata The roentgen evidence of a fibroma is a well defined rounded opacity usually ansing from the posterior wall of the thoray The use of artificial pneumothorax may aid greatly in its Teratomata commonly arise in the recognition anterior part of the chest they are fairly well defined though often markedly irregular

Carcinoma of the lung is comparatively common constituting over a per cent of all carcinomata. The roentgen signs presented by it depend largely on the stage of its development its location and the secondary manifestations produced by it. The occurrence of sarcoma as a primary malignancy of the lung is doubtful. The clandular enlargements of Hodgkin's disease are usually associated with similar enlargements elsewhere Tumors of the mediasti num although readily recognizable as such in the roentgen examination frequently cannot be differ entiated as to their origin or nature. To decide whether or not pulsation is transmitted is often difficult ADOLPH HARTUNG M D

# SURGERY OF THE ABDOMEN

#### GASTRO INTESTINAL TRACT

Brunn It Cardosp m S g Cl \ t Brunn tit the the cau c of ca ho pam is un

kno nalth t the tem ard m a mi nome a the co lit 1 to the co dire end of the stomach but t th 1 e end of the or ophagus The symptoms ref rly typic 1

A ca con rate lupo by Brunn va th tofa man forty cight virs f ge hof st teld ff culty n swall using t c ty fi e very previous. For three months bef e he c lt d B unn he h 1 b en un able to s all hi fo d

V caminat n h i l m ked filatation f the asorbag and phago copy e e led a s c abut 8 cm ind mtr

As it wa clearl e il t that Plumme d'lat oull n t 12 thr ugh the mail | ent g int the ston h the m th l of Mikulez w us d the tomach heing opene I an I the ze ophagu dilated manually Af u t ge ilatatio v obta et

The patient mal a in e tful reco e v gained 3 lbs a 11 novable to svallor ny Li d of food ithout d c mf rt HER WEIN MD

In the e of 56 pt at a stell rgit or duo aluler 6 ) or atin terfor el ith a total i rialt f | nt The 1 rate included trut and elele ofara they

c ulile leterm !

Of the 6 patt at ho e pe sted 1 cally at the nrt per to 76 per c tld hle of the 300 trate in tils at first 7 per cent died Of th 48, patint ho perated p ber r Decemi 3 95 50 that Of the latter 89 prot be osile I ured hl ospretacethe u ble to rkohe sympt m high recluie th a ript on thit the ulce h heal I Th un rdp tiet c titut 44 per c nt of th so T t teu pos licelly and 6 perc t fth teated evt ch

If it be umed that the results a the untra ed cases we cathe sam and that the in the 7 cas treated recently ill & similar the racidence of cure n 56 s rg c liv tr t d cases ould be 8 5 per cent and th t f fa lur nel d g operate d aths and cases with pe st vmpt ms ould L 85 per cent Failure sult d 38 per c nt of all cases trated conser att elv and pe cent f those treated radically In fo to three c se t o or m re

inter ent us ver nece ary to obt in a cure If each re peration regar lel sa failu e f the prima y op at on ven whereosobtused ventu ally the edence ffail e is nor ased to 3 3 per ce t O l lv the tret t r teria does th authors inc le e f ucc ss fall bel v the a e ages reported by (uleke

Starl ger e t mat that in nearly one fourth of all it operate tupe there little or no mprove e t Ther a vet no perative t atment that vill hive rief o a ur a cue i e erv cise of 

can t be e trely at fiel it? their es lts With ut lubt gr tal and ha e bee made in the latt c to he a a s but the goal far f om b re hed

Acc ding to the the 1 s of the Innsbruck Cl ni

laparotomy 1 ndic ted follow 1 g unsucce sful med 1 1 tre tme t 1 h n the X v find ngs ar at least highly ug e ti e fulcer the clini I ma festatio s f le are d t net and the da nos i further c i m d by the g tric hemistry and the p esence of bl d i the t ls The desi i a patient to re me hi o k n the sho t st pos ble time should lol the to consider tion The slightest sug g st n fm l na y i d cat plo at on Resec t n d sabl but not mpe at ve The method of h e : the a t colic Bill oth II pr cedu e v th a Br un a to 1

In 1 p ble g ticuler the Lempp 1 ju os t my ad abl buttb fatte ts pe mi on must b I tan d I fre the pratt n is pe formed In i f abl d od alul er an anterio gastro enter o t mv flu ente o a astomo s should be done I c es the ne att macro pic fi dings severe has al mptom nd u u cessful re ults from m d It atment ndinc e ith hypert ophy of the pylo us r s t n i d ted In mild cases e 11 rat ry ga tr t my should be do e and follor ed b closu e f the bdomen w thout furthe v ork f tleind & a negati e Dainag shuld be est b hehe lo ly fth re i und t nty as t the possibil ty of suture. In nompl te pe forat on operat on should be delay duntil a 1 tent a per das poss ble Acut ble di g ul r eq ires immed ate esect on Whe peptic ulcer of the jejunum is su pected an explo t hap tomy a d p ssibly ad all oper ation ll benc ary Slee e re ectio a d pylo ic e clu are n 1 ger used in the treatment of ulcer at the Inn b uck Clinic

is t t i b fo there is no optimal method of treat g ll ca of ga tr and duoden lulcer The ingeniou dea of N k l d ni wo ked out by Wolffr halft it imp sson on the gastre sur ge y of the | st tv enty h e ye rs n the lo m of the gastro intestinal fistula The establishment of such a fistula has been the method of choice either as an independent procedure or in the form of the Billroth II method or its modifications The unmistakable tendency to return to the Billroth I method and the adoption and modification of this method by you Haberer indicate the change in our treatment

In the further development of the treatment it is possible that gastrojejunostomy in the form of the Billroth II procedure will be reserved for those few cases of ulcer in which after subtotal resection anastomosis by the Billroth I method or termino lateral gastroduodenostomy is impossible because of too great tension or these procedures are interfered with by extensive adhesions about the descending duodenum It will be a question whether even in such cases a von Eisel berg jejunostomy is not pref erable. The constantly increasing number of po t operative iciunal ulcers developing even after the radical Billroth II operation is so depressing that it seems questionable whether gastrojejunostomy in any form is justifiable GLASS (Z)

Lewisohn R Gastroduodenal Ulcers Partial Gastrectomy Versus Gastro Enterostomy in Their Surgical Treatment J 1: If tss

19 7 lvv. 18 649 slev J S Partial Gastrectomy Horsley J S Partial

LEWISON following the lead of European surgeons particularly those of Germany and Yustria advocates partial gastrectomy for both gastiic and duodenal ulcers Although in gastric ulcer the choice of resection has become fairly well established the proper surgical treatment of duodenal ulcer is still The author gives again a ubject of controversy the statistics from Berg's clinic at the Mount Sinai Hospital New York which led him to abandon gas tro enterostomy in favor of partial resection. He does not agree with Wool ey that the high incidence of gastrojejunal ulcer following gastro enterostomy at the Yount Sinai Hospital is due to the fact that many of the patients are Icus

The disadvantages of gastro enterostomy for duo

denal ulcer may be summed up as follows Many ulcers are not cured by this method

Local excision of duodenal ulcers is often not feasible or possible

- 3 Gastro entero tomy for healed ulcer with stenosis is not practical because it is impossible to tell by palpation whether or not an ulcer has healed
- 4 Resection is difficult after gastro enterostomy 5 Gastro enterostomy does not safeguard against
- hæmorrhage 6 Partial gastrectomy produces in most cases an achlorhydria which appear to be an important
- factor in preventing gastrojejunal ulcer Gastro enterostomy seems to have a mortality as high as or higher than that of resection
- I ewisohn points out that the stomach which is removed in a case of duodenal ulcer is not normal as

the pyloric end shows a marked gastritis in almost

every case
The contra indications to resection are severe diseases of the kidneys lungs and circulatory apparatus and cases in which the ulcer is so near the common duct that radical removal is inadvis able. There were but two cases of recurrence of symp. toms among thirty seven patients subjected to resection for duodenal ulcer Lewisohn believes that in both the failure was due to the removal of too small a portion of the stomach

HORSLEY emphasizes the physiological activities of the stomach-digestive absorptive and motor He states that the great majority of gastric dis orders giving rise to symptoms are due to a dis turbance of motor function either direct or reflex The importance of the lesser curvature to the motor activities of the stomach must be borne in mind The influence of the nervous system on the stomach is of importance but has been overemphasized. The attempt to standardize operative procedures on the stomach is wrong each case should be treated accord ing to its particular requirements. No one type of gastrectomy is applicable to every case. The bases of all gastrectomies are the Billroth I and II pro cedures and their numerous modifications

It is best to attempt to restore the gastric outlet by anastomosing the distal end of the stomach to the duodenum if this is possible. Horsley describes briefly a modification of the Billroth I operation which he has been using with very satisfactory results for four years. The anastomosis of the duo denum to the stomach is made along the lesser cur vature of the stomach rather than along the greater curvature the lesser curvature being thereby kept in line with the duodenum After the posterior sutures have been placed the anterior wall of the duodenum is split for a distance of from I to 11/2 in In this way the diameter of the duodenal stump is increased so that often an end to end anastomosis can be done. If an end to end anastomosis is im possible the redundant stomach can be easily infolded The dangerous triangle is thus elim inated

This operation has been performed on eighteen patients and in every case the postoperative course was remarkably smooth. In eleven cases it was done for ulcer in six for cancer and in one for gas trocolic torsion All of the patients with ulcer re covered though one had a severe postoperative hemorrhage and another had a hamorrhage to o years after the operation Of the six patients with cancer one died as the result of the opening up of an inflammatory mass on the surface of the pancreas Of the five others one is living sixteen months after the operation two died ten and nine months respec tively after the operation and two were operated upon only recently

In the discussion of these reports C H MAYO stated that even when half of the stomach is re moved we are not sure that we are removing all of the acid from the stomach and even if all of the

acid is removed ve cannot be sure that such re moval ill pre ent ulcer format on s nce mars nal ulcers may occur w th achylia. He regards Horsley s suggestion of making the nastomesis along the les er curvature as important but called attent on to the fact that unfortunately most ulcers occur along this curvature

CRILE said that r section gives the mot sat a factory results in gastric ulcer but not in duoden l ulcer In lu len l'ul er hove er re ection may he necessary if other treatment fails. The type of

op ration indicat dv is ith the case LAMEA emph a zed the nece sity of trains, medical treatment per stently and adequately bef r assum ing th t t has fa led In the cases of patients ho have de cloped a gastrojejunal ulcer f llo n gast entero tomy gastrect my s the best ope a tion if the ston ach can be delive ed an I the general co dition a good. For cases of gastre or duod nal ulcer in thich medic I treatment has failed and part cularly in those n high bleeding has occurr d Lahey prefers parti I gast ectomy unless the p tient is a po risk and the stom ch cannot be radily del ered he a g stro enterost my sh uld be done and f llo ed by a strict dietary and medi 1

GILBRIDE said that up to the pre ent time gastro enter stom atl m dificatio s to meet th eq irements of the p ticular case has prov d t be the m at sat sf ct v procedu Tle effects o The effects of the em; al f h lf f the stomach are not kno n and as a r utine measure Da tal ga trectomy 1 un urgical

ARN p tel that of optients suljected to gastr ente st my nho ne e e m ned because of recuren fs mptoms at a etc n hospital where they had beneat by the lite and Bur au none gave h t v of ideq ate medi il treatment before the on rati n

LEWISOHN stat d that all f h s patient 1 d had

medical tratm nt bef e ope ti n

Herstey's id that med call the tment should be g en in paticall e cry ca of pept ule r lether ic it on is I leat der not and that fouler s of bief durat on with mild symptems and e pecially those in the du d num it is all that is nec sarv Ho e it i not le to cont n & m d cal treatment f r year

M nu l My MD

Bhmans on G Oa Sec nday Reet n of the Stormed n D e e C nd t ons Aft r Gast o Entero tomy t / / rg S d o 7 lm 80

The author re e s f u te n case n h h a astro enter stom as perform d and the symp toms recur ed r notes ed afte a slot r or longer period of time. The quest on as to hat m sur s g ve the best pr spects f mp e nent hen inter nal treatment a la elladapt d det filt g e sati factory e ults c nieb stansvered by dividing the cases into t o groups acco ding to the locat on of the sympt ms

Mo tof the cases vere diagnose las gastralg a with the so called D nichan secondary syndrome The cl nical p cture was the same whether the resected specimen showed only a more or less chome type of suppurati e gastritis or in a ldition a peptic ulcer In such ca e partial gast ectomy gives a good result hether ulcer is present or not. The clinical symp

toms eem to depen l m e upon the inflammatory cha ges than upon ulce at n and the tyrical period c ty in the claic l c urse evide thy depends

upon the different stages of the g str tis

The autho see nl group of cases e e tho e in which the symptoms were ascribed e tirely or in part to the ntesti e and the e as a mor or less typical c liti In se e al of the case the gast o ente ostomy s emed to have been perf m d on insufficient indications. In other the di position tovarl the development of col tis v hich my have been pre entilef re the peration was man fested by severe intest al pan afte the gistro inte o tomy In such c es it is chiefly the changed type of ga tree acust n itl tan ito yo e fill ng of the m Il te tin that I unf rable to de tion in the post pe at e pe iod and far r postope ative inte t nal symptoms. The tr atment indicated is rem val f the gu tre enter st my openin. By the mea r th r sult of hetetic treatment are im pro ed even th ugh a compl te cure a not assured The c eem to be n 1 lic ti ns for p rt al gastree tomy in the e c ses

The e tor tin faphysi logical passages ay and of frict on lacti e e acu tion se m t be the factors of chief impo to ce i the Ir ent on f severe

post per ti 'i te tinal disturba ces

Ste nberg M E Brougle J C nd l dg ff I J Changes in the Ct m try of the Cont ats of the Stama h Foll wag G st le Op rations 1 h S g Q

The reas n for ti d cr a in the past ic cidity afte gast ctomy is mu I hispute I Some n estiga tors belie that the mportant facto 1 the lack of st mulat on f the f nd c glan is by the contact ith the tal muc sa Oth rs are of the op n on that more apid empty ag and neut al ation by r gurgit tion of duo le al contents are tl principal tictors. It s vident ho e er that es ctu n do s not rem e th acid s c et ng mucosa si ce th antrum conta a only p I ric land which sec ete no cid

In xperiments on do the nutho s tudie i the re 10 set a m at meal n lav lov pouch before and afte ga tr enter tomy an i before a d after a tr m re ection. The amount of secret on vas slightly d reased after g stroenter tomy and eluced ne halt afte r sect on but n n ith r case s the acid tych nged

In an th r e perment they a troduced by Iro cbl c ac 1 into the stomach lefore and after a g st o nt rostomy nd after a resecti r of the antrum in al ch the g tro entero tomy vas left intact Normally it req 1 ed at least an hour for the acid to he reduced to o 15 per cent while after the gastro enterostomy this occurred in from thirty to forty five minutes and after the resection it occurred even more rapidly

In a fourth experiment the stomach was divided and external fistule to the fundus and the antrum were connected externally by a glass tube beef extract was introduced into either the antrum or fundus the antrum secreted no acid whereas the

fundus secreted acid in either case In the fifth experiment the response to beef extract and to hydrochloric acid was observed before and after resection of the antrum and after regures tation of the duodenal contents was prevented by di viding the duodenum above the anastomosis and uniting it to the ileum After resection of the antrum neutralization occurred rapidly but after diversion of the duodenal contents to the ileum high acidity persisted until no more contents could be aspirated. These findings demonstrated that the change in the chemistry of the stomach contents after antrum resection is due chiefly to the regurgitation of alka line duodenal juices BLETON CLARK IR MID

MacLennan A Congenital Abnormalities Ac quired Causes Treatment Brit W J 19 7 11

Acute intestinal obstruction causes practically the same symptoms in children as in adults but when relief is in pro pect the prophosis is somewhat less serious in children than in adults. However, in many obstructions due to congenital malformations relief is impossible

Of the congenital malformations, the author discusse duodenal stenosis jejunal and ileal atresias colic obstruction rectal obstruction exomphalos Meckel's diverticulum and strangulated hernia. In all ca e of developmental obstruction the bowel distal to the obstruction tends to be in a state of what might he described as embryonic spasticity Thus a functional atre ia is superimposed upon the anatomical atresia. It is to the former condition that the practically hopeless prognosis is due

Of acquired cruses of intestinal ob truction the author di cusses kinking of the bowel due to a con tracting cicatrix from tuberculous infection of the mesenteric gland strangulated omentum a strangu lated Richter hernia and mesenteric embolism Ife does not classify intussusception among obstructions

The symptoms of intestinal obstruction are vomit ing which i per i tent an i changes in character in a well recognized manner which makes it pathogno monic visible peristalsis which may be accentuated by tapping the abdomen or lightly scratching the skin and distention which i due to the formation of gas and soon become a ociated with paralysis o that the escape of the gas gives no relief

The treatment consi ts in lavage of the stomach and early operative interference. After the abdomen 1 open the distended bowel should be avoided a gentle search made for the undi tended gut and the obstruction approached from the sound side. The author believes that an enterostomy should be done regardless of other procedures that may be indicated I fistula formed through the omentum shows a marked tendency to close spontaneously To insure its function an enterostomy should be made high in the iciunum

Early diagnosis and prompt intervention are of the greatest importance. Another factor governing the prognosis is the degree of ileus present. This de pends to some extent on the amount of handling which is found necessary at operation as well as upon the nature of the obstruction and the patient's re sı tance ARTHUR L SHREFFLER M D

Ileus in the Material of the First Muzeniek P Municipal Hospital of Rica (Der Ileus nach dem Material des I Rigaschen Stadtk ankenhau es) Dut cle Zt 1 f C/1 10 7 C 11 3 5

This report is based on 2.4 cases of ileus operated upon during the period from 1911 to 19 5— 5 cases a year or 0.36 per cent of all cases of surgical disease seen in a year. In 1918 and 1919 there was a very marked increase due to the unfavorable conditions of the period of military occupation-hunger mal nutrition and the use of indigestible vegetable suh stances and food substitutes. The races most fre quently affected were in decreasing order the Jews the Germans the Lithuanian Poles and the Letts Seventy two per cent of the patients were males As was the case in Russia Finland and the Balkans the most common type of ileus was that associated with volvulus Volvulus occurred in 47 per cent of the cases whereas in Germany Austria and Switz erland it occurred in from 5 to 10 per cent. This also must have been due to the economic conditions and hahits of life of the people

In 50 per cent of the 173 cases of volvulus the large intestine was involved and in 53 per cent the sig moid flexure. In Germany volvulus of the sigmoid flexure occurred in 33 per cent. Males were affected by volvulus of the flexure eight times more frequent ly than females. In every case there was a mesosig moiditis which could not be easily explained on the basis of obstination alone. As the result of mechan ical processes such as stretching and tearing of the overfilled loops which had sunk down into the lesser pelvis there occurred extravasations of blood and tears in the mesosigmoid and to the e was added an intestinal catarrh with bacterial infection. A cica tricial narrow and long mesosigmoid and a long dilated flexure with thickened walls and narrowing of the areas where the sigmoid joins the descending colon and the rectum were the factors which dis turbed the co ordinated function of the flexure and mesosigmoid and led to volvulus. Frequently this occurred after an immoderate meal (holiday feasts)

Careful in pection of the abdomen nearly always reveals the axis of torsion of the flexure ats configu ration and its boundaries

Is a rule the evagination method of Grekow was used In half of the cases (those treated during the period from 1911 to 19 o) hyation methods were employed In these the mortality was only 12 per cent but a recurrence developed in eight c ses (19 5 pe cent) In the eases t eated by o e stage or t o stage resection the mo tality vas 73 per cent

The material reve ed indicates that adhesio s play the chief rol alo in vol ulus of the small intesti e as they fa or shrinkage c ntraction and thickening of the me ent ry high prevent m ve ment of the bo el (fifty five cases) In filteen cases there a lyulus of the czeum

Of all of the patients ith feus e ghty six ded-

40 per cent from vol ulus

In ag n ton (5

In 104 eas s (2, per cent) hich adhesions e e the cause if the inte tinal betruetion the mortal ty as 48 p r cent According to Hesch Thebes us most eases of nt t all obst ct on are due to post operative adhes ons but 1 Riga a po toperative ileus developed i only o pe c'nt f the cas s'or 39 per c nt of all ca es of leus due to adhe ions

In the et of the cases the illus was due to Meckel di erticulum the append the mentum tears in the mesente v nte nal inca ceration obtu ration compre i invagination (fou t en cases as children unde hite n years I age ere not includ ed) or mi el cond tions r as of the dynamic o spastic typ (thr e c es) The total m rtality 5 per c at 1 f orable progno is depend helly upon early operate n K > (Z)

Tanas seu and Okne ye SxCs sof Int raal d g tn (11) d g tn (11) Id I o71 of

ase f te tinali as n tion Of Taa scu the large bo el as I lin fi 1 d the mall bo lino e Of tho ith i ol em nt of the larg bovel four ere a e of agnton fth care colc type and ne as a c e fint c pt n of th tran ve e c i n due to a s bm to s lipoma the nly ta c n shcha s The latter

Iti n c ull be fo nd that would accou t for the invag nat on

a th t fa man ag d th tv tour The fir t c t k n uldenly II th acute ab veas lo dom nal pain hich last dith ou hiut the las a d as follo ed o the tax b fecul nt omitig When the pati t ente ed the ho p tal on the the d line habimen walt II I sho ed v ol nt p ristaltie mo ement A dag o i of ntestinal ob truct o wa ma e

Operatio p f rm dato e veale 1 50 c cm of bloods fluid n the blom ral ca ty and m vag at o of 70 em of the ileum. The bo el as resected an la id to side anastomosis made. The resected specim n sho ed no p thological hanges that old cut for the odt on The present mad an une e tful ec y and w s d h rged tventy days fite the of at n

as th t of a vom thirty five years of age who became si idenly liv th nau a vomiti g and se ere abdominal pain afte a me ! The pain began in the ep gr trium and rad sted thr ughout the abd men During the ne t th ee days the par

subsided and the patient was able to take liquid nourishment For three vecks he vas compa a tively comfortable but lo t cons detable we ght At the end of that time the pain recu ed

When Tan ses u first a the pat ent two days afte reurrence f the p n she was weak and dehalat land gaeah to of p na d compl te suppes n of gas and freal matter l r the pre yous se en da s On examinat n n elongated tumor the si e of a fist could be felt in the upper all dime and vi lent peritalti mo ement as cirt i th pain ee not d from time to time un ng from

r ght to left

Oper tion eve lel a la ge tumor on sting of the colon fom the cace m t the ple c fi vure—a cae colic intus u I tion Wlen the in ginati n va d eng red the leum n t enter the cacum love 1 n th n no mall at the ide I the ppend v lifte f vatio f the cacum and right col cfl vur to the perit cum n th no te o all losed The patient v s di charged the abdo en on the tenth day

The third case as thit of a ma it entire ght va of e hohvibeen schiot leedars The attack began ubic tely the pain and omiting N folicoll be take. When the pitient as bought t the hospit like sin eri poor con dit h t gue sish beath foul nd h abdome lite ded in elo gite i tumor coul i be left extend from the right ill c fo a upvard d the umb laus No per t 1 seo ld be een llik to l ere pasel luin the la ronth gam of the clo sho d the larium e em t ppel in the cl n the region of tl umb ) cu

Ope at on r ale 1 1 tuss ception of the a centeget nto the tany ec lon Th ect d and n ale olo tomy va lo e The piti t died from peritorit the diffit per ton The rectel b el ho el a l rg ne to atto

Cr 4 sth tofrma I thirty t e rs ho lout to an lah limo the pe tou l had had a ttak faut bdomin l pan i the litt flank and h p h l i n follo el by the pa ge f bl ck st 1 Mrtb attakthe pati th I felt better frome tme bt but four ek befoe hi lm in t the boptal he suffered a liss of asp tite n I vomit d'fequently fte meal At the ti f h admi he omit di e santh and compla ed of sye ablominal pa altiome be ame it inded and rig t a d in the left ilia fo a ther a a prome bich was ten ler t the touch

eve led a p f ated intussu ceit on of the cacum ato the tr se e colon The b el

re ct lanlan de e lost my a do e The p tient d lel en lays after th op at a from perito itis d e to leakage thro gh the t re line of the bo cl

stht favoman ffts fou vars of Ca e 5 age she for some tim had h d lte t ng ttack

of diarrhoa and constipation with meteorism. The first attrick of pain had occurred six months previously. The pain was very severe in the region of the umbilicius and was associated with regurgitation gurgling and the passage of considerable gas. No feed matter was expelled. At first, the attricks came on at intervals of about two weeks, but ultimately they occurred dails.

Lyamination recorded beneath the umbilicus a firm elongated mass which could be moved about and disappeared from time to time. The re appear ance of the tumor was accompanied by pain

I eristaltic movements were marked

At operation an intussusception about a submucous lipoma of the transverse colon was found. The mass was disentaged the part of the bowel bearing the tumor was resected and an end to side anastomosis was made. The postoperative cour c was smooth.

Case 6 was that of a man of forty years who for two years had had attacl so filter pain on the right side associated with vomiting and constitution During the last attack which occurred the division provided the faced type. When the patient was first seen by Fransescu he was suck and weak During the examination he was eized with violent puin and peristilite was running from the right like fossa toward the hypochondrium were noted. A tumor about 40 cm long could be pulpated.

The condition proved to be a excelor intussus ception with strangulation of the appendix by an adhesion. The intussusception was disinvaginated and the appendix removed. The patient was dis-

charged ten days later

The author emphasizes the acute sudden onset of the condition followed by cessation or amelioration of the symptoms—1 cries of acute or subacute abdominal crisis approaching the clinical picture of chronic intussusception. Lycept for the case with tumor nothing was found which explained the intussusception. The pathological changes in the bowel and appendix could be accounted for on the brisis of strangulation. All of the cases were operated upon under spinal anaesthesia.

In the discussion of this report I reins stated that in the adult acute intussusception is very rire and usually of the chronic type Immediate operation is not necessary. In the diagnosis which is difficult the roentgen ray is of great value.

C NEX YT stated that although intussusception in the adult 1 usually chronic and frequently due to tumor it may also occur acutely and without evident cause. In case on which he operated the intervention was decided upon because of the intense pain rather than because of obstruction Before operation the condition is most often diagnosed as appendictive.

(FPNFZ agreed with I econe that most cases of intussu ception in the adult are of the chronic type and characterized by punful cases a tumor and permanent of intermittent constinution. He

had recently seen a somewhat similar picture in a

OF INCINE SUCH THAT IS A STATE OF THE METERS AND A STATE OF THE METERS

MICHAELL MASON M.D.

Gallagher W. J. Acute Traumatic Ulcers of the Small Intestine Observations on the Effects of the Application of Clamps on the Castro Intestinal Tract an Experimental Study Irch 5 rg 19 7 v 689

It is generally conceded that trauma may be a factor in the genesis of chromic peptic ulcer but opinions differ regarding the influence of operative trauma from clamps in the production of chronic pipunal and experimental ulcers. In the opinion of most clinicans hyperchlority dria and operative trauma are the important causes of journal ulcer and Ivy contends that trauma and poor physical condition are important factors predisposing to chronic experimental ulcer.

The author performed four experiments on dogs In the first experiment a study was made of the blanching pressure in millimeters of mercury on the gastro intestinal tracts of ten dogs. It was found that localized anomia produced for forty minutes resulted in superficial ulcers of the disodenal mu

cosa

In the econd experiment the pyloric region of the duodenum and stomach in ten do, as was traumatized by clamps for from lifteen to eighty hie minutes with just sufficient pressure to produce blanching in the duodenum typical acute ulcers resulted from applications of thrity two minutes duration Shorter applications produced only microscopic crossons and cellular exudate without gross change. These acute ulcers headed rapidly leaving scar tissue moderate dilatation and thinning of the duodenul will and external adhesions. The clamps produced no gross changes in the stomach. Marked toxic reactions followed trauma to the duodenum.

In the third experiment a series of six procedures on three dogs ligation of the panercatic duct and trauma to the duodenum by clamps resulted in emacration vomiting and delayed healing of the

ulcers

In the fourth experiment clamps were applied to the jejunum ileum and colon in six dogs. In the jejunum and upper ileum acute ulcers resulted but these were superficial and lacked the digested appearance of these produced in the duodenum. No ulcers could be produced in the lower ileum and colon.

I rom these experiments it appears that in dogs the application of clamps to the duodenum or jegu num with sufficient pressure to shut off the blood supply for about thirty minutes produces typical acute ulcers which heal leaving typ cal scars and that trauma caused by clamps may fa or the development of chronic experimental ulce in dogs By To Class In MD

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

Troell A A Case of Abscess of the L or After a
P marithm 1d d g S a d 9 7 kg 4

In the cuse of a man to enty two year of age ho had had a thituby for the week. Symptom lead ing to a diagno s of iver alsees devel ped t bout the time the witho heale! The lyer alsees we sopened an idraine! an it to patte t reco cred On drect examination the pusy, he well the prese ce food but no further bacteriological studes yere made.

Ch fly bec use of the absence of othe urces of infection and the time at which the able is also eloped the ool that on as rec give fly the state final near as a sequel to the acri lent cru ing the high to and the latent was ganted compen at in fir the eliter period of his dis high.

Carnett J B Tle Simulation of G li Bladder

D sease by hi to costal N ut ig of the Ab
dominal Wall 1 S g 9 1 4

Carnett calls attent in to the fact that a b in the pain an I tendernes f nt c tal neuralm involve the upper part of the ab lomen on the ri ht d they may clo elv sin ul to the pain and t nd m of hall bladder disease a d that the mere hall h f a grossly or m croscopically diseased gill bladder at operation does not prove that the p e p at e symptoms vere cau e i by the gall b! d ler n l ll be relieve! by chol cyst ctomy Ca n tt has found intercostal neurals a to t the mot commor can e of bdom ral ; u and ter le n which ar not heved by appe dect my r ch lest tectomy He states that many surgeons he have I a ned that appea ec om all not cur the chone pan and tendern s of the appendical tra gle h e not vet learned that the same chronic pain and te d e of the upper tria gle are n t cured by bh erations In e ery ca e of abd m nal tend roes th abla

In e er ca co do do mai tend ries to able men shoul be jajated hie the prient hold h abdomnil muscles as tense a poor ble eithe protection in taphragmo er in ha heel om the best tilt the true effected on the three effected with the true effected with the prient mental to be prient in the case of the prient mental to the prient mental to be prient in the prient mental mental as eleved may be either parie tell en utra abdomin 1

The author rejects the theory that a diessed grill bladder or son e other bdon mail x cus man gre rise to a vicero en ory reflex namiested by cut neous hyperasthesia of the thdom ail x all. If a found that the great major y of y tent with ske tenderness do not ha e intra ahdom n l le o s of any consequence

When parietal neuralgia is present the h story and bed ide examination are often insufficient to estab lish the presence or absence of a vi ceral les on especially gall blad ler disease. Ut der such circum stance the hedside examination mu t be supple mented by the Graham te t a ga tro inte t al e am nation and diagnostic bile draininge. Unless one of the e three sur plementary examinatio is gives very I time e ide ce of g ll stones or cholecy titis unle s th 1 relible litory or jund ce is pe ent u less i rgem ut of the gall bla lder i de mon trable runles constitutional and local symp t m e pec lly r gratty in heate cute cholecy ti Curnett'r fra fr'n 1 rat n wlenever be let cts the prise of inter the neural in the biling triangler griles of the precince of hat have he tfrebc c lelach acteriste h tory and fedule find g of chroic o recurrent kall blad ler 1 a c fle r efer to study the patient du ga cute atta k as he ofter finds that the vent t ms d app r h n the ntercostal nerve truka in eth telith no ocan A L L STREE ER M D

Ill ng tl C F W Types of Gall Bl dd In

fect n a Study of 100 Operated C e B t

J S & 9 7 \

The f eque t occurre ce of brete sals feet on n d g II blad le ha log bee reco ted but the r I true frog en i f the different type of og min the rom I foct a I the ute of all poch t the g II bl dier are t II m tter for tro ers

The bacter of fining of value in the hith uniformity in the minimal but in from the interest of the minimal but in fining in the minimal but in fining in the preceding in the control of the control of

Bact may re ch the gall bit ide b as of () the ble firm the he re f h they re he ch th they he can be the call the () the ble lember of male alized he pasts rafe tin 1 ighbor g isce a such is the st method lenum panets a fipper l or (3) the blo 1 st can for med

t nt focu of ni ct on

streptocor

The uthor poiss are of soobete local earm at n of sill bladle oltained from the sr calcine of Wilkie of Ednough I thin n vest gitton the attempt was made to a sner the foll one questions

Is the wall of the gall bladder or the bile more frequently involved by bacterial infection and what organisms are most commonly found in each?

2 Is any one organism more constantly present in the early stages of the disease and therefore likely to be an active factor in the production of the condition?

3 Is there any evidence that one of the three routes of approach is the usual path of infection?

Infection of the wall of the gall bladder was found in 62 per cent of the cases Streptococci alone were present in 34 per cent coliform bacilli in 17 per cent and both streptococci and coliform bacilli in 5 per The bile showed infection in 40 per cent of the cases In 16 per cent the infection was due to strep tococci in 20 per cent to coliform bacilli and in i per cent to a mixture of streptococci and coliform Mixed infection was therefore found in only a few instances Staphylococci were also infrequent In examinations of 23 crushed stones only seven proved to be infected

Gall bladders with thick fleshy walls were more likely than others to give positive cultures but in fection of the bile could not be foretold from the

clinical appearance of the organ

The typhoid bacillus was never isolated although at least three of the patients had a history of typhoid fever This fact confirmed the experience of Judd who failed to isolate the typhoid bacillus in twenty one cases with a history of typhoid fever

Examination of the various layers of the gall bladder wall yielded no evidence indicating that one laver is more prone to infection than another

The report is of interest in demonstrating the comparatively frequent occurrence of purely in tramural streptococcal infection. The findings support the present day opinion that the spread of the organisms by way of the bile either from the liver or from below probably occurs rarely if at all

The investigation is of interest also from the count of view of the Meltzer Lyon test As unin fected bile was found in 60 per cent of the cases it seems obvious that a negative bacteriological finding in this examination must be of no significance and does not even exclude gross gall bladder disease

With regard to treatment the author states that the presence of active infection deep in the wall of the gall bladder as opposed to a catarrh of the mu cosa tends to diminish our faith in those therapeu tic measures which are directed solely toward disin fection of the bile and emphasizes the value of operative treatment. He suggests also that in the great majority of grosser lesions at any rate drain age by cholecystostomy is insufficient to eradicate the disease and cholecystectomy is the operation of choice CHARLES I DUBOIS M D

Hoffmann V Masked Recurring Cholecystitis Without Stones (beber lat jette rezidivierende Cholecystitis sine concremento) B ilr kli i Chir 19 7 CYXYIY 507

In cholecystitis without stone formation the indications of disease are frequently not clear

Often there is absence of definite colic The so called stasis of the gall bladder is usually dependent upon bacterial inflammatory processes which can be demonstrated only on microscopic examination Occasionally nationts with this condition are treated for months or years for gastrie disturbances The ingestion of food-especially foods rich in fat-is often followed by continuous pain in the epicastrium The findings of physical examination are usually meager only a moderate sensitiveness under the right costal arch being apparent

At operation the serosa of the gall bladder has a dull appearance The walls of the gall bladder are thicker than normal Occasionally there are peri cholecystic adhesions which if the stomach and duodenum are normal may be ascribed with cer tainty to gall bladder disease Gall stones are absent The meagerness of the findings at operation is explained only by the subsequent microscopic examina

The condition occurs with equal frequency in both sexes and often at an early age. A relationship to pregnancy is not so easily determined as in choic cystitis with gall stones. In a few of the author's cases the masked cholecy stitis had been preceded by a non specific adnexitis

In the differential diagnosis between masked cholecystitis and gastric and duodenal disease nor mal findings in the stomach and duodenum indi cate the presence of masked cholecystitis value of cholecy stography in the recognition of this condition is still uncertain. In almost every in stance of masked cholecy stitis the gastric acidity is decreased Anatomically the masked form of cholecystitis is essentially a disease of the gall bladder wall chiefly its inner layers. The location of the changes explains why at operation in which only the external surface of the organ is examined even advanced pathological changes are not dis covered Macroscopically the mucosa is thick but free from ulcerative processes

Histological examination shows an exuberance of mucous glands polypous thickening of the ville and such extensive changes in the mucosa that in certain areas the with are entirely absent and the dense fibrous layer is covered only by a smooth layer of epithelium The originally loose textured connective tissue has assumed a cicatricial character. As the result of recent irritation, there is an inflammatory infiltration of leucocytes and lymphocytes microscopic findings are shown in photomicrographs

On bacteriological examination micro organisms are never found but the histological findings show with certainty that the masked disease is based upon a bacterial cholecystitis

The pathologically changed gall bladder is respon sible also for other disturbances in the enigastrium It constitutes an area of increased irritability which affects the surrounding tissues. An important role is played by the varying irritability of the sympathetic nervous system To the organic trouble there may be added psychic disturbances

Cholecystiti vithout stones is considerably more frequent than the purely functional gall blad fer stasis Very often the functional disturbance a ethe first manife tation of the changes n the gall blad

The treatment of the condition should at first be conservati e-rest in bed the local application of heat dathermy and a diet of early digested for Is In the author's case the symptoms ere often r he ed by the u e of cyclot opin If conservative treatment fails the gall bl lde sh uld be removed

SCI TIRE T (7)

In the author's oninion reports in the lite after do not indicate that cholecystectomy i preferable to ch lecy to tomy f r kall sto es

Re exam nat n f 106 pat ents treated for gall stones howed that the incide ce of recurren e of symptoms due to ref matt n of the stone o er looked sto es cholangetti or adhes ons a as fre quent after cholecysteet my a after cholecystostomy

Cholecy tectomy does not increase the risk of ascend ng infects n of the bile pas ages

La oche G and Huet J A Common Duct St is Re aled by the Tetra I doph nol phthalein Te t in a Pat ent W o Itad Been Subjected to Chole s set tom; (St h I d m é d p lép e d têt p lép d phé lpht l hl y te t m'e) d d 150 d P 0 7 1 880

The case reported wa th t of a patient thirty four years old who had been subjected to chol cy tectory () ch lelith a s foll ing numerous at tacks of h p tic clc which ere ass ciate | w th jaundice but little or no fe er The operatio 1 as follo ed eighteen month I ter b ubbep te pare sub cteru ch luria the p age e ere d spep of clay colored stools and a slight feve la th ee day Palpat on of the p ncreatic duoden 1 region was d tinctly painf l A tet a lophenol phthalein test made the eeks afte the onset f the jau dice sho ed sta s n the common duct

The saundice di appeared in fi e weeks und dietary t eatme ta d'the use of b! v antisept c but ecu red three month late An \ ray e am nation made fourteen hour after the dmini t at on of 4 gm of odium tet a iodophe olphthalcin ith the patient in the fa ti g state e e le a shado det the 1gh of the econd cm 3 cm long by s n the c mmon lumbar e tebra The stas duct near its juncture with the duocenum \ ray exam at on one half hour I ter he ed only a unctiform spot nth as a

In the authors op no this as a case of blary obstruction ass cated with diatation of the cim mon duct following cholecystectomy There was no evidence of pancreatitis 1 roentgenogram made after the disaj pearance of the jaun l e v as negati e

D latation of the bile pass res after choleris tectomy bas been well established e perimentally Hautefort demonstrate I that it occurs within from thirty st to fo ty c ght hours after the removal of the gall bladder Ro t has h wn that a fey months fter the operation chile vstectomized dogs may he I id d nto to o group (1) those in hich the ph noter of Od i hypertrophies and the ble pas siges dil te into a r se voir for the b le which emp tes during lige ton and ( ) tho e in which the sphincte remains little de eloned and the bile es cape continuously The occu rence of d lat tion of the bil pas ages aft r ch lecystectomy depends upon the tonicity an I esistance of the sphincter

The free ency of ! lat tion of the e traheratic bile duct in ma has of yet been e tablished Leroche an I Huet made tetra odophe olphthalein te ts n fifteen patient from three to five yeas after choice teetomy but failed t obtain a positive mage When telatation s pr se t the bile empt es only d ring no iti e n ess re. In the abs nce of tast no mage of the bile lucts can be obtained

W LER C BURKE M D

Pol eco E Ti St dy f ti Ext rn | Functi n of th P nc as n Choi est ti and Ga t du denat Ulce by Mean of Simple and Frac t mal E min tion of the D den 1 Jules (C trib t ll tud dil fu lt te di g) i Ĩ. t t htd Imd tim mpl d dn1) 4 / 11 d / 027 4 7

W th the e of the E nho n tube I lacco made e am nations of the g stric and duode al ju ce in f urteen ca es of pept e ulcer and thirty t o eases f dise se of the bilt v tra t The techniq of the tubat on is de c ibed i det 1 \ ay control is the only sure method f proving the presence of the end pece the luod nun

In c ry se vami at ins were made du ing the fast g state a lafte the gestio of a mod fied Exald test meal Cholag g vere avoided they d to b phy 1 lg al d chemical condit o

A qu ntitat e and qualitat ve study va made of the p cre tic e zvm -tryps n l pase (te p 11) an I myla e The a thor is o in ed that n one of the three fur : hes n adequate index of p nere The s cretto of each seems to be atic for cti depe d at I gely a th two others No consistent ted betwee the enzymes and parallel m as disease groups 1 e no sec eto v variat on pecul ar to gastroduode al di orders r to blary l e ses On the oth r ha d the values of the th ee en ymes were d rectly nfl enced by the g stric c dity regardle f the form of the d ease. The latt r observati

confirms the fi ding f Pop Iski and Pa 1 dem str t 1 th t the troduct on of a di to the d ol num ill cause pancreat c cretion e en after secti n of the vag and planchn c n rve

Mrs AG EL E

Cayla A The Test of Shock from Cold in Hæmo lytic Icterus (Lepreuve du choc zu froid dans les icteres hémolytiques) Presse mé l Par 1927 x vv

In applying the test of the local cold byth sug gested by Widal for paroxysmal hemoglobinura Cayla obtained the phenomenon of shock in two cases of hemoly to reterus one congenital and the other acquired. There were no apparent clinical signs but changes in the blood vessels and blood were noted—a decrease in the blood pressure a trunsitory leucopænia and the transitory appearance of albuminura and unbilinura.

In hemolytic icterus the findings of the virious laboratory tests are far from being constant or the same even in a given case. Clinically there is found an entire intermediate series of conditions between hemolytic icterus and the fruste type of condition showing only fragility of the red blood cells. The fact that the cold test causes in the e cases a transitory albuminum analogous to that which is observed in parovismal hamoglobinum indicates a relation ship between the two conditions. Therefore, it is possible to group the various conditions showing the phenomena of hamolysis under the term—hamolytic disease as suggested by Chauffard.

The apparently well established fact that cold produces shock which is manifested by disturbances in the blood vessels and hlood may perhaps explain many observations of general pathology. I his shock is especially evident in parory small hamoglobinuria Raynaud's disease and spasmodic coryza. So far it is possible only to speculate regarding the mechanism and sequence of the phenomena and it is impossible to say whether they are brought about by complex colloids acidosis or some other mechanism

Although the occurrence of cold shock raises certain interesting problems regarding pathogenesis this test is not of great diagnostic interest in homo fytic interest in homo from the point of view of etiology it indicates biologically the influence which cold seems to evert in homolytic interest in homolytic interest in homolytic interest in homolytic interest which are often latent but sometimes apparent it does so only in patients who are predisposed to the reaction and the cause of the predisposition is still unknown.

(R CLIMENT) MICHAFL L MASO M D

Muller G P The Indications for Splenectomy

Itla ! If J 1927 XXX1 59

The author believes that splenectomy is very definitely indicated in some cases of permicious anemia but just as definitely contra indicated in others. It should be done in early cases with active harmolysis. It should not be done in the cases of elderly patients.

In purpura hemorrhagica plenectom, should be done in the chronic cases. In the acute stages of the condition it is of no value. In the early period of the

disease all of the blood forming tissues are involved while in the later stages only the splcen seems to be affected

Hamolytic ictero anæmia must be differentiated from icteric conditions arising in the liver. Muller does not operate during the crisis. In the chronic cases his results have been very good.

In sickle cell anomia splenectomy is not of much value. Although in two cases the operation was followed by improvement, the condition persisted

In splenom elogenous leukemia the mortality was at first about 87 per cent but in 1026 W J Mivo reported a series of cases with a mortality of 5 per cent Muller beheves that splenectomy is of value in the chronic cases but that radium and the Nriy should always be used first. He has never known of a cure in this condition but in some in stances the operation has been followed by definite improvement.

in Hodglun's disease splenectomy is of no value With regard to the operation itself. Muller emphisizes the importance of a good arresthetic good surgical technique and extreme care to prevent tearing of the thin walled years with loss of blood. His incision is made in the left rectus with the upper end turned outward. He add ocates multiple ligations of the pedicle and is very careful to see that all raw surfaces are covered since obstruction of the bowel may follow neglect of this precaution. Whenever possible he gives a transfusion both before and after the operation.

In conclusion Muller states that when a careful technique is used and the cases are carefully selected the mortality should be less than 10 per cent

HERMAN O MCI HEETERS M D

#### MISCELLANEOUS

Macrae D Jr Acute Conditions of the Abdomen Complicated by Ilcus or Septle Invasion of the Perstoneum J 12 M 1 927 lexx1 1113

Macrae is convinced that all inflammations or severe irritations of the peritoneum produce more or less severe symptoms of obstruction. He be heves that obstruction rather than peritonitis is the cause of death in fatal cases in which peritonitis his developed. His extensive experience has led him to advocate the treatment of serious or doubt ful cases by enterostomy or jejunostomy instead of peritoneal drainage which is the usual procedure when peritonitis is present.

The cause of death in intestinal obstruction has not been definitely established. Bacteræmia per verted secretions dehi dration and toværma are considered important possibilities. Toværma due to the absorption of poisons produced by bacterial action on the bowel fluids which accumulate in the intestine above the obstruction has been widely accepted as the most probable cause of death in such cases. Bacillas welchi has been demonstrated to be the organism which flourishes most abundantly in the secretions of an obstructed bowel. Williams

has had some success with the use of bacillus welchii antitoxin in cases of obstruction

Chemical changes in the blood in intestinal of struction have been described by Orr and Haden. There is a rise in the non-protein and u ca nit ocen.

and a fall in the chlo de content

In the light of his e perience and pre ent vess concerning the cause of death in intestinal obstruction Macrae closes the ablomen thout drun age following removal of the cru of infection. It is presence of a circuit e liperitorial evudate he perform a jeju tomy. It technique friguint tomy is distributed in the control to the many distribution and the administration of sodium followed is that in luing or immediately feer the ope atto and the administration of sodium had been according to the control to the contr

M LL ATI MD

SI ld n R F Tl Cont ol of Illiccup by Inl ala tion of C bon D o d J I W I 97

Shellon report to result obtonel from carbon dool in hilaton on electroses of hecup in a case of tilopothic permitted by the properties of the country of th

nı et en h u

In to cale the hiccupid eloped during tunde for a that in flow case the gran folloing a liprix musin the call the first folloing a liprix musin the call the castot music library and the castot music call the castot music call the castot music call the castot music call the castot music castot music castot music castot music castot music castot castot

W. M. Inflammatory D sea s of the D a phr gm and the \( \) sociated D apr agmatic Synd me (Ub t \( \) d b t \( \) d h \( \) if \( \) is \( \) d d d b b \( \) b \( \) f \( \) d phagmile \( \) mpt \( \) k mpt \( \) in \( \) if \( \) k \( \) C \( \) g \( \) 7 \( \) d \( \) 8 g

The dapb agm is pract cally ne er led pimaily M t daph agmatic con litios have their orgin abox the diph agm in the pleura or lusofbel it in thable late to subdiaphrag matic space. The ritation of the in oled dia

phragm causes a definite syndrome Acute da phragmathis frequently resembles acute pentionitis. It is first manifested by severe pain in a side zone abo e and below the points of insertion of the abdom all cavity which radiates bick into the lumbar reg on Corresponding to the spontaneous pain there is a d fluse tenderness to pressure. The most important sign is gighty of the abdominal musculature which is diffuse and of great intensity priticularly a the upper portion of the abdominal musculature.

E en light palpation of the abdomen 1 ve y pain ful but the se s ti ity does not incease as a peri

tomitis whe deep pressu e is made

Exam atton of the chest often re cal on the first day but me e frequently on the second or third day a nar w stip of dimin shed esonance nd shallow respirate over the lover lobe of thing. This may be due to wudate alone but i the call take of the co dition i ften cau ed by the high po to not fit the dase! I daph agm 's the sault of the nflammatory i filtration of the ne cs a jat of the 1 phrzym becomes par ly call.

If the p ary cond ton is diplingmatic pleurs, the stend oner o later to the costal pleura a is the tende val of sub haphragmate flam in try p c e. The findings of the thoracie examination. If is hether the primary condition a per ton lord appropriate.

A impo ta ta lf que t sign of daph agmatic ds a e i isolated hulde pain (reflex acti n of the phe c ne c on other ner e bra ches ar i

th tiom th cric | pleyu )

The to my net of feute: fammant not the disphasm unally ub le n the first fee d ys but the defense of the blommal muscles often per ten needs although the pain soon ceases. Unlet the nnigs periodic tensor and ule to the need demperature. Nuese comment l'ile dysurbarce of diph gmate function le ly lerable in the nate pluctue. The fillammantory presolute spread by cothet its from right to left or see ersa

In the auth fo ty for a ses the deae a m st f equently f prad phragmat cough 1 onl se n n it due to a subdiaphragm the co d

tio (ab ce ple c malaria)

Where call the tevery acute pritione becomes the base studed from the standard of the light manner of the light grant country common but a not generally rec gnized.

# GYNECOLOGY

#### UTERUS

Miller C. J. The Modern Conception and Treat ment of Uterine Fibroids Olio St t W J 10 7 TYDE 800

The author reviews the modern conception of the treatment of uterine fibroids and draws conclusions by ed upon thirty years of work among private pa-tients and among the colored patients in the Charity Hospital of Louisiana Fibroids were ten times more frequent in the latter group. In the white patients because of the average intelligent regard for health the tumors were usually small but in the majority of the negro group in whom treatment was delayed the growths were large often reaching to the costal margins Degenerative changes of all types were common Inflammatory conditions of the adneya were found in 02 per cent of the colored women and in these cases pain from the adnexal disease rather than the fibroid compelled medical relief At times tumors of very large size caused no symp toms whatsoever Bleeding in the form of menor rhagia was the most frequent symptom Leucorrhora was common Pain was due to associated adnexal pathology pressure on surrounding organs or tor sion and degeneration of the fibroid

The author concludes that many small tumors are symptomless and require no treatment. How ever they should be checked up by pelvic exam

inations at definite intervals

Radium therapy because of its simplicity almost absolute freedom from mortality and morbidity and generally excellent results is an ideal procedure in properly selected cases. It is exclusively a method for the gynecologist rather than the radiologist or general surgeon for an accurate knowledge of the pelvic pathology is essential. In women under forty years of age in whom preservation of ovarian function is desirable radium is not advisable nor should it be employed to treat growths larger than a three to three and a half months pregnancy which cause pressure as it may not appreciably reduce the size of such tumors Radium has little effect upon very dense fibroids or those undergoing enlearcous degeneration. In the presence of adnexal disease its use is contra indicated as it may activate latent in fections and thereby cause pyosalping and perito nitis It may be followed by infection also when the fibroid has undergone degeneration Degeneration i indicated almost invariably by anæmia out of proportion to the hymorrhage

The best results were obtained by Miller in the treatment of single or multiple intramural growths within the proper size limit 1 preliminary curettage was done to establish the pathology and eliminate malignancy Polypi which are prone to slough and cause infection after the treatment were removed The usual adequate dose was so mgm of radium

inserted high up in the fundus for twenty four hours The author's experience with roentgen ray treat ment was limited because radium bad given him satisfaction

Many tumors not suitable for radiation were effectively treated by myomectomy which has its widest field in women of the child bearing age However if pregnancy is impossible because of adnexal disease hysterectomy is a more rational procedure Myomectomy is best adapted to the treatment of single subperitoncal or intramural growths Menstruction returned to normal in from so to so per cent of cases The tumors recurred in fewer than 3 per cent The frequency of subsequent pregnancies following my omectomy makes the procedure valid from this standpoint alone Certain points in technique must be emphasized stasis is essential. Tight sutures must be avoided or ischæmia and sloughing of the tissues will occur. A preliminary curettage should be done for diagnostic purposes and to secure drainage Multiple growths are best removed by several incisions as these will cause less damage to the interine musculature than

a single large incision

In the majority of the cases hysterectomy was the only rational or possible procedure as the size and multiplicity of the tumors and the frequent adnexal pathology contra indicate l radiation or myomec tomy Hysterectomy is always indicated for adeno myomata and for large or multiple growths in women approaching the menopau e The complete operation should be done if the cervix is lacerated or If the cervix is healthy supravaginal hysterectomy as performed by the average surgeon will have a lower mortality. Vaginal hysterectomy has a definite field in obese elderly women in whom postoperative complications or abdominal hernix are possibilities The danger of thrombophlebitis after operation for large fibroids can be decreased by gentle handling of the tissues and limitation of the number of clamps employed The success of fibroid surgery depends not only upon the skill and judg ment of the operator but al o upon the pre operative preparation of the patient. Nourishing food rest antiseptic douches and transfusions have a definite value in converting a poor surgical risk into a good

Fibroids associated with pregnancy require careful observation in the absence of complications The surgical treatment indicated depends upon the size and location of the tumor and the duration of the pregnancy Women with fibroids should be carefully watched during the puerperium for while this period is usually free from complications torsion degenera

tions or necrosi of the tumor may occur and de mand surg cal interference

AL EF MAXAGEL MD

Lynch F W Submu ous F br ds and Tl ir Teatment 1 J S g q

In 89 cases of fibromyomatous uten at lea t the sie of a 3 mo th peg a cy suhmucou tum rs were found in 66 intramural tumor in 5 anl subper toncal tumors in 71 cases Hemorrh ge occu red in 83 pe c nt f all ca es f s bm cous growths and as often se ere enough to cau e marked næm a In o a the hæmoglobin as o per cent o less hen the patient fr t sou ht treatment Other umptoms e e par and p es re

The tr atment of a bmuc us tumor aries with the size and position of the growth the cha acter and re ult of the symptoms and the age and phy cal c n l ti n of the patient. Three meth d a envailable -surgery roentgen r v 1 a li tion and radium irra! ton I ch f these has defin t ad antage

and disad antage

The \ray i f alue in la ge ubmuc u gro th th ut e dence of er ou degen ration np t t hose blod c u t annot be b ught up to the margn f aft frope tin It i valuable allo in the cac of pat ts ith large g th who h some contr n li tion to pe atio some contr n li tion to pe atio uch s m o c dti renal l e liabetes marked be t Hoveve a the gro the not ent ely mo ed by the I ra treatme t it may I t recur a lequire surgical t tment. The reults of t atment my be 1 in lev l pi g a I the menopau at s mp tom my bequited te g

The auth r belie e th t a lium a liation h sa more I mite! pp! cation thin the e tgen ray t catment nd shoull b limite lt small subm c us nodules in vom n ho at the men pau lage ho ha e no a lnex l inflammati n a d in wh m

hæmorrhag

the c d nul s g Sug conserve to Sugical tention de not ce sarly mea by tect my F que tly mall tum s may b cmo dyith c rette Larger tumor m v be remo d by ce ical c sion o ginal by terec tomy When the uteru filled th mall t mors hyste ectomy 1 the m tho l f ho c H W FN MD

Schmit H Care n ma of tie Ute ne Ce i 1 J Ob 1 ~ 6 Q

Cer ical erosio s d hyperplasia e ulting f om infecti n i il mmat o tr uma are prohably to be included am ng the condit o s predispos g to uter ne cancer Su gical co ect n of la e ations of the ce vi a d p incum and amputat on of the cer ix ith er s o hyp plasia f fong stand g are thefore ad ble o defin te clat ship be ts en ca ci oma f the cer and the n mher of labo sha be n'establi hed Numerous births appa ently do not more se the hability to cancer On the other band inju v of the cervix from hirth

trauma resulting in chronic proliferative changes may be considered as predisposing to mal gnancy The treatment of cervical carcinoma should be

based on the extent of the growth In cases v th fixat on of the tissue the prognosis is h peless

The determ nation of the degree of hi tological malignancy enables the physician to render a rela ti e prognosi 1 high degree of anaplas is al avs associate l vith a poor progno s vhile a high de gree of ifferentiation usually means a favorable prognosis unless the e is fi atio of the tissues The Il probably find it advi able to cons der the histologic malignancy inde also in select g the metho f of t catme t L L Co E L M D

Rud E Ex m nations of the Blood of Patients iti C nm fti Ute ne Cerv D g T tment with Rdum (Blt tul) Pttemte milt h d Rd mbtdl) St// ff p

In f ty c ses of carcinoma of the uter ne cerv hl od exami t s e e made to determ ne the chang s that take place as the re ult of radium ther py It a b he ed that a relation hip be t een the bl 1 p cture n l th clinical course of the disease might be thereby established. The i clu l d the hemoglobs content the vest gat number of r 1 and h te c lls the cell vol me the bl od platel t count the c g l tion time and the se l m tati n time of the red cells

B fore ralat n the bloo l sho ed a clucti n in the pe centage of hamoglobin in about a thi d of the cases and a moderate leucocytosis in about 28 pe cent. In the the cases the leucocate co at as ormal In all of the cases the bl d platelet count

a ince ed and the cogulation time as gratly sho te el In most of them the sedimentat in rate as increa ed The last t dn as so still gas to ugge t that hen the s limentation rate is o mal the presence of a c remoma is ruled out e p cially if epented t sts sho the same result

In ans e to the question hether there i a c tai pr Il lism bet een the blood pct re and the ch ical p ess of ca ci oma of the ut rine cer 1 Rud t tes that n cases of not exte s c carcinoma the r I cell count is ab ut n rmal the leuc cyte cou t i de re sed the blo d platelet count s moder tely increased the sedim tat o ate 1 a d th coagulat on tim is short ed In rap div advancing care oma on the other hand th re s detinite nom a with a high leucocyte and blood platel t cou t a high sedime tatio rate and ho tened coa ul tion t m

In the author's study blood e ami tio s made ahout three eeks after adiat n showed that i m e tha half of the c ses there a a d minution

the pe centage f hæmoglobin and in the cou t and volume of the ed cell. In s me in ta ces the diminut n in hamo I bin amounted to 8 per cent and that in the ed cell count to 1 50 000 The d ration of these decreases as usually short The cause has not been determined but the variation is evidently not related to the dosage vaginal bleed ing a developing hemorrhagic diathesis increased

hamolasis or infection

After radiation treatments the leucocyte count was always diminished In most of the cases the de crease persisted even three weel's after the radiation The lymphocytes were most severely affected there being a true lymphopænia None of the other forms of leucocytes (eosinophiles basophiles polynucleurs or monocytes) showed such a constant variation It was of interest to note that the first reaction directly following the radiation was a distinct and often very marked increase in the leucocytes | Tre quently this began even during the treatment. In nearly all of the few case in which such an increase in the leucocytes failed to occur there were signs of some infection

No pronounced or regular changes were observed in the blood platelet count. There was no thrombo

The coagulation time also fuled to show typical variations

The sedimentation rate of the red blood cells showed an increase after the radiation in 86 per cent of the cases This increase was considerable ranging from 21 to 85 per cent of the initial value It did not seem to be dependent upon the dosage of radiation or upon infection. The diminution of the cell volume affected it to only a slight degree The quantity of fibrin however had an unmistakable influence and seemed to run parallel with the sedi mentation rate

The author determined also whether these changes in the blood persisted in the later course of the disease and whether they were of significance as regards the prognosis. He concluded that in cases subsequently showing an increase in the hamoglobin and red cell count the prognosis is generally favorable whereas in those showing a decrease of these values it is unfavorable. However this rule has many exceptions \ decrease in the leucocy te count indi entes a favorable pro nosis as does also a decrease in the blood platelet count. A lengthening of the coagulation time must be regarded as a favorable sign Rud places special value on the sedimentation I decrease in the rate indicates healing and an increase indicates advancing carcinoma

W VEGETI (C)

#### MISCELLANEOUS

Polik J O The Present Trend of Gynecology esola M d 1927 x 665

The author says that although disorders peculiar to women require just as keen an appreciation of basic pathology physiological resi tance and mi nute anatomy as do lesions of the eve or ear many general surgeons do not hesitate to attack any gynecological problem whereas they would enlist the help of an expert in cases of cataract or sinus thrombo 1

Infections of the pelvis have usually a neisserian puerperal or operative origin and each infecting agent has a definite course of invasion-a selectivity for certain tissues. In the diseased part, attempts are made by successive barriers to effect isolation and extermination of the pathological process Surgical procedure in acute pelvic infection is limited to the drainage of localized purulent foci Fifty per cent of the pelvic lesions of women have their origin in childbirth three fifths of the remaining 50 per cent are the direct result of infection

Gonorrhan inf ction The initial symptoms of gonorrhea are usually less acute in the female than in the male Chronic gonorrheea in women is capable of producing greater ravages and more permanent pathological changes than almost any other form of infection Undisturbed cervical gonorrhea remains localized and terminates in cystic cervicitis Though the organism cannot be demonstrated on smears active surgical treatment not infrequently spread the infection through the endometrium into the The frequent exacerbations of chronic gonorrheea are in reality re infections from Skene's glands A cure can be effected only by glandular destruction or ablation Endocervicitis is a frequent cause of sterility yet cauterization or operative treatment of the cervix invariably cures the leucorrheea or corrects the sterility

Lacerations Birth injuries produced by the mid wife are due to submucous fascial stretching and muscle injury while injuries produced by the surgeon are open wounds. The immediate repair of the permeum and fascial layers is commendable al though the immediate repair of a cervical tear may be accompanied by infection Dilatation accomplished by time and intact membranes leaves little injury and appropriate postpartum care of the cervix will permit postponement of operative treatment for definite lesions until the woman has passed the child bearing period

Many fibroids produce no symptoms Fibroids but all fibroids need watching. The location and circulation of the neoplasms determine their fate and development Whether the treatment shall be radiation myomectomy or hysterectomy depends upon the requirements of the case under considera tion The contra indications to radiation as outlined by Clark and Keene must be appreciated operative treatment such as the administration of glucose blood transfusions and rest will le sen the surgical risk and the postoperative administration of fluids sugar and chlorides will aid convalescence

Sterility Of cases of primary sterility due to hypofuoetion atrophy infection malformations or impotence the male is responsible in 30 per cent In the female primary sterility is usually due to endocervicitis and tubal infection. If the cervix is normal and the Rubin test demonstrates patent tube ovarian function and sexual response demand consideration

R tro ersions Both congenital and acquired retroversions slowly but progressively lead to a chain of complications hich are directly attributable to interference ith the e ous irculation and uterine drainage. No single meth d of ope ation sideal for different anatom cal c ndit ons requ e spec al 1 o cedures The impo tanc of the pe sary in retaining the uterus in antevers on feer the 1 pla ement has been manually or postu ally corrected should not be overlooked. In the auth rs cl ni postpartum in struction h s reduced the frequency of retrod placements from 38 to per cent

C m : Whil the etiol y of uterine carci noma i unkno in certa neli cal fact regard g the occu rence of cane are lefinite and form the basis of treatment Long ntinued irr tation or i fection predi no es to cancer Cancer ora i ates as a lo al ized nodule or ulcer of the cervix and hen totally confined to the e 1 1 cured by ma ive d ses of raium th bl ck g of the pa ametr at lymphatics by leep \ ay t eatme t or by a a lical operation which emo es the uteru ce v x a l exa vagina an I parametrium. When the gr wth has extended hey not the cer a rid um is the agent of choice Cancer of the uter e hely is best teated by one ation piece! d by mass e radiation

1 FF Max E MD

Pete son R A Re ew of 2 000 Patients Re ently Registered in the Gyne of girl Clinic fite Unders ty of Mich guillospit with Special Refe ence to Abn mal Bl alng B t 6 4 7 97

Practic IIv o e f urth of th 000 cently e ami I in the G necological Cl aic of the University of Michgan Hopital had exc s e uterine bleedi e

patie is all types of eye save flo In the 3 occurred-meno h gia met rrhagia combinat n of the e and postmen p u al bledne

The hop tal pate is se di idel nto the follo 1 g 1 groups in acco d nce 1th the r clin cal historie and the condit o with which the bleed ng vas assoc ted

Unsuspected 1 mplete abo t n ers e m mon e pecially the men pau s approache l Malpo to s f the utc u d laceratio s of tl cr v threult gettrop on e o ion an le lo cerv c ti n e frequent cau of mereased ute 1e

These eo d tions are m re fr quent than form Iv because of ill ad ised r d al obstetrical procedu e

of the uterus and adnex Inflammatory condit cau e increased uter ne fl w in only a small pro port on of cases (10 pe cent)

Hyperæmia of the ova ian tissue has a role in increased bleeding

Freatment should never be directed toward the interior of the uterus during the acute or thro ic stage of an infection

Non mal nant pelvic growths are the most fre

qu t cause of increased uter ne flow

The pos tion not the size of a benign growth in the uterus deter nines the amount of the increased

Malı ant uteri e growths g ve rise to early and p fuse ut r ne flow

In e ery cae of postmenopau al bleeding uterine ca cer shoul! be suspected Microscopi e aminat on f cu etti gs in almost all cases of in c eased ute me bleed ng a nece sary if carcinoma is to be detected in ts ea ly stag s

Alm t ef urth of caucer of the cerv voccurs om under f ty years of age

1 study f the histories of put ents with utenne c neer b s that hie ichyed dia nosi and treat me taele partly to no ance o the pa t of the patie t the membe of the m d cal pr fession are al pathy re pon ble since they fail through lack of Ln le le or carele ne to ad e their p te ts prope ly

With tew e cept se ry pat ent with ab armal uterin blee ing can b cured f a ca eful diagnos n ade 1 d if ppr prate treatment i instituted GE POL W PHELAN WD

Koenig R TI U d est m t d F equency and Prictl I Import nce of Menstruation O e r ing tTo Long Inter Is and in Ins ff cent Quinty (U bed b het He fiket d pkt | Bd f d | lt n d u p lha Metut ) Z ! lbl f Gy 971

Koenig tates tl thipomenorrhora mas be due to hypofunction of the o aries but the does t ex clude the poss blity that it m v cause di turbance in the se se farcte tion sy dome Thi theory ! simple and s better support d by the results of treat ment than the thory of a d turbance of the o ary f om othe gland of integral secretion. Another hch pplies t many cases 1 th ta

crease n the m tabol m r the function f the respons ble for the me trual vascula gland dist ba ces and dist b ce in other orga 8

oted f equently that vomen vith hypo meno hota suffer from very e ere he laches attack of m ine stat of depress na de en syncope No th r the byp the of ova n hypo funct nnorth tofanothe v sein lefn ble a cular bla d' r met b lie disturbance can er e to e pl in the e imptom swell as the the i held fo ages by both the lasty a d [ hysic ans that menstrual e cre tion f bloo I has a cleans ng action and any a turbs ce of the phenomenon has an u fax rable

Of 4860 women whose cas s we e revie ed by Koenia 432 suffe ed f om hypomenor hæa and of the latter 54 were amenorrhous and 334 were opsomenorrhous (irregular menstruation at intervals
of from five weeks to three months) and 144 were
oligomenorrhous. Koenig was therefore unable to
confirm the observation of \(\frac{1}{2}\)scheduler from infrequent or
scartly menstruation. Four hundred and one of his
patients had a tendency toward inflammation of the
bladder kidneys and internal and external genital
organs 304 had migraine and menopausal symptoms
78 arthritic disturbances 86 skin diseases 64 goit
or and 12 psychic disturbances Koenig obtained
good results from emmenagogues sweeting durettes
tet.

Steinhardt B. The Artificial Menopause (Ein Beitrag zur Frage der kuenstlichen Menopause)
Zi ch. f. G. b. irish u. G. nack. 9 7 xc1 361

The circulatory conditions and symptoms of the retificial menopause occurring in women castrated by the roentgen rays or operative removal of the uterus and ovaries or of the uterus alone were studied in 260 cases

Of fit; two women castrated by the roentgen rays up to a year previous to the examination the major it; of whom were over fort; years of age castration symptoms were completely absent or only slight in 46 per cent but in 54 per cent were more marked and at times quite distressing. Psychie disturbances and obesity were not observed. A slight increase in the blood pressure was noted in four instances. In one fourth of the women the blood pressure was increased before the irradiation but did not increase further after the treatment. Afterful hypertension is there fore not a sequela of castration. Moderate fluctuations in the blood pressure were noted in 21 per cent of the cases.

Of fifty two cases in which the irradiation had been done quite some time previously the symptoms of castration were slight in 23 per cent but in 29 per cent had been long continued since at the time of their occurrence suitrible treatment could not be

given

The blood pressures of the irridiated women showed no increase over those of non irridiated women of the same age and it was impossible to determine any parallelism between the increase in the blood pressure and the severity of the castration symptoms.

In thirty nine women who were subjected to hysterectomy it was found that excellent results were obtained in the fifth decide of hie Younger women had more or less pronounced symptoms which often first appeared after from six to eighteen months. One hundred and thirteen women subjected to total extripation of the uterus and oxanes were studied Of those who were over forty years old 4 per cent were absolutely free from symptoms and an almost equal number had symptoms for only a few months. In over 30 per cent of the cases more severe and very marked castration symptoms were noted for some time.

The fact that the eastration symptoms often do not develop until several months after the surgical or roentgen castration supports the assumption that as the result of the loss of orann activity, the tonus of the sympathetic nerves slowly increases. It is possible also that other endocrine glands take the place of the ovaries for a while. Hypertonus was never observed as the result of operation.

Of twenty three women between thirty and forty cars of \(\gamma\_0\) e 14 per cent were free from symptoms and \(\gamma\_0\) to 12 per cent showed only \(\sl\_0\), this ymptoms. The remainder complained of more or less severe symptoms. Exceptionally severes ymptoms occurred in \(\text{five cases}\) but even in these no effect upon the blood pressure values was demonstrable.

With regard to the question of the blood pressure due to myomaty oo women with such tumors and 100 women of corresponding ages who were free from myomata were examined. Of the former only an inconsiderable proportion showed an increased blood pressure. Three young women with primary amenorrhea were entirely free from symptoms.

On the basis of the findings of this comparison the ruthor discusses in detail the theories of Aschner. In the main he rejects them Truly serious sequelæ of castration were never observed. The fret that among thirty five cases the first castration symptoms appeared within the first two weeks in 35 per cent the fact that occasionally such disturbances appeared only after from eight to nine months, and the fact that after temporary castration the castration symptoms often disappeared several weeks before the recurrence of ovarian activity, speak distinctly against the theory held by Aschner Aschner's faulty statistics may be explained by the fact that women without symptoms do not consult physicians.

Castration symptoms are often very favorably affected by weak irradiation of the pituitary region In the few cases that do not respond to this treat ment weak irradiation of the thyroid gland is beneficial. Venescetion is indicated only in the rare cases of failure of both of these measures. The author agrees with Aschner that in the treatment of go necological conditions the measures weed should be as conservative of organs and function as possible. Nevertheless there are many cases of climacteric themorrhages and bilaterial adnexal tumors in which roentgen treatment or total extirpation is the procedure of choice.

Sumpson J A Perltoneal Endometriosis Due to the Menstrual Dissemination of Endometrial Tissue Into the Peritoneal Cavity 1m J Obsi & Cyr c 19 7 vi 422

Menstrual blood escapes into the peritonical cuity from (r) endometrial cysts or cavities of the ovary and possibly other pelvic structures which have ruptured or perforited (2) menstruating endometrial it sue growing on the surface of the ovary and other pelvic structures (3) the uterine crusty

metral tr sue growing on the surface of the ovary and other pelvic structures (3) the uterine crivity in a back flow through the tubes and (4) menstru ating tubal mucosa

-

Irrespective of its source men trual blood at times contains bits of endometrial tissues of free by menstruition. En lometrial tissue It sentinated by menstruition. En lometrial tissue It sentinated by menstruition. En lometrial tissue In sentinated by to grow first its transferred to situations in which its growth 1 po 1ble. The pet ton mand urface of the ovary. The suited to the growth of end metrial

The le ions of peritoneal en lomet: ofte occur in situations and un ler co diti ns ind cating o at least sugge ting their origin from menstrual blood escaping f in the outce meat nel

The I cal at ion the perton um to the endometrial to uperite all endometrial to the local eacting the peritoneum to cancer a perite allocations is found to the perite allocation and the perite allocat

ILCR MD

Curts A II Indic tions f Su g cal Interven ton in Pel ic L ons of Infe tous O gin J i if i q l o

Cuttis emphasis the imp is ce of a carch for infect no f8, e duct a c of pe tent luc loawh nith let fithecer x ten loc it he benefil cure! The beahing of c r vicit i the rule of ad q te lennage the lass fill meth lot teat en no m x gue. The caut x use! it nfrequent nerval to pevent secondary fect in and late stano!

Chronic endometrits due to infection i rare it occurs only after repeated instrumentation. The auth r therefore advises that histerectomy after curettage be performed immediately or deferred until the inflummatory reaction sub-de

G northead inflummation of the adners is a self-limite I lesses. A bacter tologic I study of 200 pairs of infected tubes failed to reveal the 0 ganism to veels. Iter the subside co of the fever and le cocto is The tre timent i conservative and 1 highly success full feepong to to reinfection is avoided In the author is cases operation is resorted to in lest an is per cent of the case and done chedly to relive is improved due to adha ions or prolog of bleeding incufental to inflummation of the ovaries. In a first to the adhe one four distributions of the ovaries are successful to the successful of the control of the

The ovar es shoul I be con er ed I poss ble
St eptoco cal infections of the tubes req ie
s me h t liffe t t e timent. Since streptococci
fren remai vivible n the t ue for t o year
opc tion shoul I be I le ed for at least that length
of time. A the tubul and ovaria damage i mos
e cr and dhesso s r no e den ein sit eptoco
I thin gonococcal salpingtit mo e rad cal
perat e mea ure a e ce sary fo the relief of
the r itual vimpt m of inficto. due to streptoc ct. Suzzia W Li W I D.

### OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Rissmann P The Theory of an Icterus of Preg nancy and Operative Investigation (Operative Klar tellun, oder Annahme ei e Schwan erschafts icterus) Zeitralbi f Chir 1927 h 2031

Icterus occurring in pregnancy is too often at tributed to the pregnancy itself. Interruption of the pregnancy in cases of icterus is incorrect treatment. More often surgical intervention is iodicated Jaundiced pregnant women bear operation well and the fetus can withstand jaundice for a long period.

Rismann reports a case of jaundice with severe addominal colic in a para it twenty seven years of age. In this case a characteristic abdominal rigidity led to puncture of the cul de sac of Douglas. The puncture yielded a greenish yellow fluid from which bacillus paratyphosus was cultured. Later the same organism was found in the blood.

At operation all of the organs of the abdominal cavity were found to be covered by a greenish yellow secretion. The patient recovered and five months

later gave birth to a full term infant

Also cited is the case of a pregoant woman with interus of four months duration in which a gall stone was removed from the papilla of Vater and two and a half months later a full term infant was born

It has not yet been definitely established that pregnancy causes an idiopathic icterus. According to the internists the toxic and infectious traumata which can e acterus come from the bowel contents The pancreas also may be the source of attacks of pain and laundice The pancreas seems to be quite frequently affected in pregnancy The author re ports the case of a twenty four year old woman in the third month of pregnancy who was admitted to the hospital with a history of apathy vomiting of four days duration and marked icterus. The urine showed acetone bilirubin albumin and hyalin casts After the daily administration of 60 50 and 30 units of insulin and I liter of 4 per cent glucose solu tion by proctoclysis the acetone disappeared from the urioe in two days the icterus disappeared from the sclera in three days and the patient was dis charged cured after eighteen days

In the author's opinion the term recurring interest of pregnancy should be dropped from obstetrical literature since thus far no proved case has been observed WORTMANN (Z)

Schumann E A Observations upon the Co Existence of Carcinoma of the Fundus Uterl and Pregnancy 1m J Obst & Ginec 1927 xiv 573

The patient whose case is reported complained of uterine bleeding and backache. She had had ten normal labors and no miscarriages. Her youngest child was two years of age. Her last menstrual pe

riod had begun twenty days before her admission to the hospital and had continued intermittently ever since alternating with a thin serous discharge. She had some pain in the back, which did not radiate and pain also in the lower abdomen. The vaginal outlet was multiparous the perineum relaxed the cervichard dense and without laceration and the uterus large boggy movable and forward in good position. A gentile curettage was performed and ten days later a pashy sterectomy was done

When the uterus was sectioned it was found to contain a normal two and one half months embryo. The sac was unruptured. Just under the lower border of the sac there was a grayish necrotic area about 0 cm. in diameter which was limited to the nucosa and somewhat circumscribed. This area did not extend under the placenta and was not elevated above the surface nor especially vascular. It was at all points at least 3, cm above the interoal os

and had no connection with the latter

The pathological diagnosis was adenocarcinoma A critical examination of many sections revealed certain characteristics which were peculiar to the There were present a normal decidua a normal placenta and a fetus The stroma reaction was pronounced with many large decidual cells and cell islets The glands were reduplicated showing marked hyperplasia but throughout there was a breaking through of the limiting membrane with massing of the epithelial cells outside the confines of the glands which formed the typical rain worm like convolutions and markedly irregular mitotic figures The tumor was entirely extraplacental which is usually not true of chorio epithelioma and there was no evidence of a second placenta from a twin pregnancy E L CORNELL M D

Ikeda h. The Etiology and Pathogeness of the Leucocytic Infiltration of the Human Placenta (Ueber Actuolo ie und Pathogene e der Leukocyten i filtration in der menschlichen Placenta) Bettr path int u allg Path 1927 ix m if der

In the first part of this article the author discusses the localization and causes of leucocytic diapedess in the placenta. Io his study of the condition he mained fifty two placente without any special selection of cases. At the site of insertion of the umbdical cord and at the middle and marginal portions of the placenta the oxidase test of Graeff was carried out and hæmatoxylin cosine and cresyl violet stanned sections were made. As a result of his iovestigations the author draws the following conclusions.

r Diapedesis of leucocy tes at the juncture of the umbilical cord and placenta as well as in the chorionic membrane of the placenta does not depend upon the duration of labor nor upon the strength of the contractions of the uterine musculature

- 2 Transmigration of leucocytes into the pfacenta occurs very frequently in stillb rths and forceps deliveries
- 3 It takes pla e al o in pregnancies running a normal course
- 4 It is found much more often at the junctu e of the umbilical cord and placenta the 1 at a distant e from it in the chorionic membrine

5 It is not specific for syphilis
The second part of the a ticle leal—ith the
nervous or chemical causes of leucocytic diapidesis
and the nervous sensitivity of the placental blo d
vessel. Perfu ion experiments on buman placental
vessels the mechanism of Inch is described in detal
and histological studiu on the place tal vessels vere
carried out. From a critical revie of his finding the
author conducts that the fetal blood vessels of the
placental passess no ne ve elements and that the
diapedess of leucocytes takes place vithout in
nervous influence and is a reaction to a chemico
obsised ist mulati in in the sense of Graefi

In the thi d part of the a t de l'teda reports on experiments ea sed out on animal to determine hether the blood vessels of the ch. son and the placenta possess ner e nhera and hether leucoccue infiltration of the placent can be joduced ruficially. The experimental animals were gue apigs in a late stage of p egnancy. The experiments e.e. conducted with emissions of bacteria, as ell as

dilute acid and alkaline solut ons

The e pe ments ith the beter all emuls o s sho ed that transm gration of I ucoevites in the subchoronic size and at the juncture of the umbilical cord a d placenta may be produced artificially by the injection of hacterial emulsion into the aminotic fluid and that a make I accumulat on of leucocytes occurs at the size he e the bacte a become local zed

The othe experiments sho ved that after the injection of dilute solut ons of alkalin or ac d into the annionite flut d in the case of young fecuses the material leucopt is become leposited to ard the annionic flutd in the pe pheral intervillous spaces and appear to a a jung digree in the all of the cho on In the cases of older fetues there i all of a training gration of le cocycles for on the fetal blood ve sels at the juncture of the umbilical ord a diagram.

The autho concludes that in cases n fich symbilities and other infection can be e lad d the leucocytic inflictation in the cho on of equently encountered is to be attributed to a ph succhemical change in the aim of c flu d. It is impossible to ay to what extent this dependent upon autinion or other factors.

Dav d on H S Therapeut c Abo tion vith Spe ci i Refe cace to M thods of Ind ction Ed b rgh M J 9 7 x Ed b gh Ob t So 8s

Day dson considers that hyperemes s a the most amortant indication for the induction f ab t n

because it has been the chief indication in the greatest number of cases both in his hospital pract te and h a private work. The rule by which he is guided in thi connection is that if either the temperature or the pule is over noo for forty eith hour the pregnancy is to be terminated. Jaund ce is the other clin cal sign of importance in judging the sevent,

Mitral stenos si al o regarded as an indication for ab tion in certain cases. At term casarean section th sterilization of the patient is performed

Other indication given are active phthisis certain renal conditions ith albuminuma hydrid mole e rly hydr mnios and certain me tal affectio s

The meth 1 empl yed are divided into the slop a d the rapid method. The former are used when there is a wigner, and the latter when the patients I fe is end in go d. In the slow method dilation and 1 a king of the utery with gauge either with or though the structure of the event by means of jobp 1 reep. Is the implist procedure. Tents are occasionally with the slope of the slope

Of the rap d methods the autho favors vagmal by the otony and occasionally addominal byste et am. The other rapid m thod mentio ed is ab bominal hysterot m. Th. I in hearde when stern lizat a is to be perfo med after the e cision of degenerat g froud when the patient! p actically certain to abort a d hen a hydaid mole is pe em. Yesson Susse MD.

McQu en J D ll'emorrh ge la Pregnancy
Ca d M 1 s 0 7 85

McQueent d scus es thre types of bleed ng in pregnancy amely the bleed ng associated with abortion accidental homo rhage and the bleding

due to plr enta prævia

lborti ni di cussed only briefly ith emphas s
on the importance of a lice to the patie t early in
pregnancy and the limitation of vaginal e am na

t ns
Of o o con ecut e cases of p egmancy admitted
to the Winnipeg C eneral Hospital a diagnosis of
acc dental humorrhage v as mad in mine. In tha
group there ere no mat nail d aths. The pithol g
scal and cl. ical pictu es and the theories a cubic g
the cond to no toxum a torsino of the uterus.

In ction I disturbance s of the uteroplacental cfculation and trauma e b elfy c 1 ved In the treatment the a m should be to combat shock empty, the ute us and stop the harm chage by th dramastration of mo plane the applicat of fat ght binder the intracenous jectio of fluid and t ansission. In severe cases casare a section vibo at the third treatment of the constraints

This sho ld ul ays be preceded by blood t ansfusion l'ampon de and ver ion are not indicated l'Ilacenta pa : i m y b classified as complete incomplite and i mplantati. Its pe ence is suggested by hemor hage occu rig in the last three months of pre na cy. For a posi ve d agno

a vaginal examinat on s necessa y

The treatment must be carried out in a hospital and must depend upon the general condution of the patient previous interference the condition of the cervix the period of gestation and the situation of the placenta. Rapid manual or mechanical ddata tion of the cervix and rapid delivery of the child by forceps the administration of pituitini or breech extraction are to be condemned.

In the 2 000 cases of pregnancy referred to pla centa pravia occurred sixteen times. One patient with this condition died a few minutes after her ad mission to the hospital. The fifteen others survived and three of them gave birth to hving infants. In nine cases the treatment consisted in tamponade and version. The author agrees with Watson and Miller that conservative treatment or casarean section is the procedure of choice.

DONALD G TOLLEFSON M D

Cruickshank J N Acute Endocarditis in Pregnancy and the Puerperium Notes on Eleven Autopsies Glasgos M J 1927 c nn 279

In a series of 160 consecutive postmortem examinations of women who died during pregnancy or the purpernum acute endocarditis was found in 11 cases In 5 cases the endocarditis was of the ulcer attive type in 6 cases of the simple type

In 2 cases it was simply the terminal event in some other illness in 4 it was secondary to infection cleewhere in 2 it was of the rheumatic type and in 2 it developed at the end of a period of cardiac failure due to a previous attack of endocarditis

Puerperal sepsis appeared to be the direct cause of the acute endocarditis in only 3 cases

Infarctions were found in 7 of the 11 cases In farction of the brain was present in 4 cases of the lung in 3 of the kidney in 3 and of the spleen in 1 case

Splenic enlargement was present in 8 cases but was extreme in none

Fever amounting to hyperpyrevia had been present in 2 cases. In 6 there was fever of moderate degree while in 3 there was little or no disturbance of temperature.

In conclusion the author states that these post mortem examinations demonstrate the importance of sepsis both uterine and extra uterine in the causation of acute endocarditis in pregnancy and the purpose of the properties of the

Newell F S The Treatment of Cardiac Complications of Pregnancy and Labor Bo to M & S J 1927 exc n 757

Newell stresses the great need for specialists in obstetrical cardiology

Ten per cent of all women develop murmurs during pregnancy but in the vast majority of cases all signs and symptoms of cardiac impurment disappear later. In approximately 2 per cent of all pregnant women a definite cardiac lesion is present and in one balf of these cases the patient's future

depends upon the care which she receives during pregnancy

Congenital heart disease of a severe nature is comparatedy rare Mitral stenosis is the most serious lesson Aortic lesions are less serious while uncomplicated mitral insufficiency is of almost negligible importance

I attents with cardiac disease may be divided into three groups (1) moderately and extremely severe cardiacs (2) mild cardiacs and (3) possible cardiacs

Those in the third group should be watched very carefully. Those in Group 2 who have had a single attack of rheumatic heart infection but in whom the cardiac muscle is but slightly affected should be carefully watched and instructed to avoid exertion. In this group repeated pregnancies are relatively safe.

I attents in 'Group' i have a definite mittal stenois or aortic lesion and heart muscle damage. It may be possible to carry a patient of this type through one or more pregnancies but cardine in validism may be the price paid. If the patient is seen before the fetus is viable abdominal abortion with sterilization should be performed. When the fetus is viable the patient should be carried to near term and casarcan section and sterilization then performed.

If MILTON in discussing the paper pointed out that og per cent of the patients in Group 1 have mitral stenosis while only 1 or 12 per cent of all pregnant women have this lesion. Nevertheless 20 per cent of all maternal deaths at the Boston Lying in Hospital and 28 per cent of all maternal deaths in the Faulkiner Hospital were derived from this group. In the first two years of the Heart Clinic there were 68 circlases of Group 1 with a maternal mortality of 17 7 per cent whereas during the 1st three years there have been 133 patients of this type with a maternal mortality of 3 8 per cent. During the same period the infant mortality was reduced from 25 to 100 per cent. This improvement was due entirely to the intelligent care given the patients by the obstetrical carlologists.

GEORGE W PRILAN M D

#### LABOR AND ITS COMPLICATIONS

Gordon C A Respiratory Emphysema in Labor  $tm \ J \ Ob \ t \ & Gyn \ 1927 \ 1V \ 633$ 

The occurrence of ur in the subcutaneous tissues is an unusual and interesting complication of labor-aphenomenon probably occurring more often than has been recorded in the literature and of interest because of its sudden onset and our lack of positive knowledge regarding its etiology and pathology.

The author reports two cases in primiprize. In one case the emphy ema occurred in the first stage of labor and in the other in the second stage.

I I COPNELL M D

Mosher C C Cæsarean Section Indication and Limitations S g Gyn c & Obst 19 7 xlv 6 5

The main points made in this article may be summarized as follows

I A Baudelocque diameter of less than 17 cm and a true conjugate of 6 cm or a tumor blocking the outlet is a positive indication for casarcan section

Seventy f e per cent of all pel ac contractions allow delivery by the natural pas ages

3 The classical co servative or Saenger operat on done when indicated by electin is comparatively safe The matern I mortality should of exceed per ce t

4 The maternal mortality is inc eased by rupture of the membrane attempts at forceps deli e v the induction of labo ve son camotomy or e e frequent e aminat as ber age pre iou to the ecti n Afte any of these craniotomy should b selected in the intere t of the mother's life section 1 ione after a potenti l'infection it must be a Po ro or a lo e traperitoneal operat on

5 In eclamp a the indication for casarean sect on is limited to the cases of primit ara, with a rig d long u vielding ce viv ho sho no improven e t follows g six hou of c n er at ve treatment

6 Pl centa præ 14 is mo t generally an indicat o for to the s bag in luction the except in being se ere bleed g ith no dilatat n in a præva

central s

7 The letal mortality 1 to be reckone? according to whethe the section is demanded by pelvic dystoc a or by mater al di ea e Under the lormer cond tion a minimal death rate for the 1 fant may be pr d cted wherea unde the latte cond t n the risk to the child f in harmorrhage toward or o e matur ty is necessa ilv vastly augmented

Finally the dicato for casarean s ct on when e ha e eached Utonia will be e t ely de pende t on prenatal cale and the obstet cal conscience HD sMD

#### Rucker M P The T eatment of C nt act on R ng Dy toca w ti Adren In 1 J Ob ! & Gy 9 7

The a tho repots t o c ses in h ch a con traction ing cau ng is toca a laxed by a hypodermic injection of s minim lation solu t on of acire aln In most cas a such an causes a cessatio of uteri e cont actio be sho n graphic lly a d a rela atio r g that can be felt ith the haid the uter s I no case ha Rucker note i a motor effect. The cas in hich the e was no cla at on howed no effect at all This result is probably plaine by the occu of a a oco st ction rence at the point of inject s high delayed the ab orpt n

LLC ELMD

Schumacher P The Mech n sm of Labor n tle
Cont acted Pel is IV The Tr ns e sely Con
tracted Pel s (D G b t m h m be m IV D q e e gte B ck ) AhfG k 97

This article one of a series on the mechan sm of labor in the cont a ted pelv s epo ts upon e per

mental investigations regarding the mechanism of labor in the transversely contracted pelvi

When the transverse contraction is slight the in fant's head enter the pelvis according to the mechan sm of the normal pely s The walls of the t ansversely contracted pelvis which convergedown ward exert an influence upon the mechanism of f bor only when the degree and the form of the m creasing contract on of the pelvi interfere with the normal changes in presentation and position of the de cending head. The fetal head may be turned with it agittaf suture in the longitudi al di meter before it is turned by the knee of the birth canal

When the spines of the ischium are very pomi nent the head may encounter additional resistance at the r level but in most cases this can be overcome

th the aid of the Sagittal synchitism. The devel opment of this s gittal syncliti m is e plained ac cord ng to the mechanics of labo and is shown in two illustrat one

Attention is called to the importance i the mechanics of labor of the not uncomm n striking mob l ty of the articulations of the Lyphotic funnel Whe the fetal head enters the pelvic inlet

th the occuput directed rather poste only it may still rot to v thests occupilt anter only in the upper of the pelvic c vity if the transverse con tract on is not marked. But the farther the head descen! into the pelvis the more difficult this becomes u tl finally it i ntirely imp ssible The he disth nore enter hy the more closely approach g pel c wall from making my change in position In su h cases labo takes place acco d ng to the me hans m of a front l or an occ put posterior p esent tion h ch e d ngers the per neum to an even greate extent than the occuput anterior pres entat n becau e the pubic a ch of the transversely co tracted pel is s u ually so narro and pointed that e n the les bulks sinciput has no room in it and therefore the bulky occuput e erts g eat force ag not the ft parts f the pel ic flo

More marked tra verse cont et o may affect the presentation and positio of the advancing fetal head eve n the pelvic inlet s t may tu n the long front occipital dameter; to the langitud hald am eter in accordance with the sl pe of resistance of the nely Cinlet Schum e e (C)

d F C Clinic 1S gn of Fet 1 Di t ess Du ng L bor t J Obt & Gs D 7 XI 650

The fetaf hea t sounds since they are transmitted d rectly from the fetal beart ill usually g e first hand informat o as to the condition of the fetus Careful auscultat on is obligatory and should be done from early a labor until the child is bo n It s e pecually nece sary n the cases of elderly p m1 paræ women with a quest onable pelv n which there are treque t trong contractions cas s in which the fetal membranes h ve ruptu ed pr maturely and cases of breech pr sent t on

A fetal heart beat remaining below too hetween pains is a s gn of distress calling for e tremely careful observation and investigation or the termination of labor if this can be done with safety to the mother

A funic souffle persistently heard usually indi cates that the cord is around the neck or that there is pressure on the cord It is therefore extremely im portant as it indicates possible danger to the fetus

The appearance of meconium is not per se of the vital importance that some obstetricians suppose but when it is associated with slowing of the fetal

heart interference is indicated

Neither a rapid fetal heart nor a fetal heart that varies provided the variation is within the usual normal range is of serious importance in the major ity of cases

Occasionally however a child may be born dead without previous warning from the fetal heart of the impending asphyxia even when careful observation has been continued throughout labor Such deaths are usually due to some form of cerebral injury in volving the respiratory center

Syphilis has not been found to be a factor in fluencing the rate of the fetal heart during labor A small pelvis early rupture of the membranes and frequent strong uterine contractions have a marked effect in slowing the fetal heart

Prolongation of the first stage of labor influences the heart rate of the fetus very little but prolonga tion of the second stage has a more marked effect

In the discussion Davis stated that the paper did not sufficiently stress the importance of irregularity of the fetal beart beat

Prefere did not agree that the meconium is to be disregarded in cephalic presentation. He is of the opinion that the infant is at least partially asphyx sated in such cases E L CORNELL M D

# PUERPERIUM AND ITS COMPLICATIONS

Findley P Puerperal Inversion of the Uterus 1 1 J S g 1927 111 452

Two cases of complete puerperal inversion of the uterus were operated upon by the author In both the condition occurred in a primipara and followed forcible expression of the placenta. One patient died from shock and hemorrhage at operation but the other who was operated upon on the twelfth day of the puerperium recovered

Findley states that partial inversion of the puer peral uterus is of common occurrence often un

recognized and self rectifying

Complete inversion on the other band is one of the rarest of obstetrical mishaps. In 1 032 164 labors it occurred only 17 times or once in 113 063 labors It is most common in home deliveries

The forcible Crede maneuver and traction on the cord produce inversion only when the fundus is ie laxed and the lower uterine segment is flaccid

In unrecognized partial inversion may be made complete by an increase in the intra abdominal pressure due to coughing or straining at stool

Approximately one third of all cases of uterine in version pass into the chronic stage thirty or more days after labor. In two thirds of all cales the placenta is adherent Inversion may occur without collapse or hamorrhage The mortality ranges from ra to 26 per cent

In the treatment it is of importance first to con trol the hæmorrhage and relieve the shock blanched patient is a poor surgical risk. When ef forts to control the hamorrhage and relieve the shock are unsuccessful the attempt should be made to replace the fundus If this procedure fails the fundus should be amoutated. An infected uterus should be removed DONALD G TOLLEFSON M D

#### MISCELLANEOUS

Kosmak G W Fundamental Training for Ob stetrical Nurses Surg Gy ice & Obst 9

In proposing a condensed syllabus of theoretical and practical teaching Kosmak says. The set period of thirty hours as a minimum has been ad hered to although neither the lectures nor the demonstrations may take up the full number This will afford time for review lectures and for quizzes on the practical demonstrations. The textbooks on obstetrical nursing which have been thus far recommended should be either supplemented by simpler editions or subjected to revision in which the essentials treated in the lectures are noted and stressed Moreover it is of great importance that medical men lecturing to nurses on obstetrics be thoroughly instructed as to the character and purpose of their lectures that such lectures be given by the attending staff preferably the seniors rather than by the resident internes

Ingtomy as related to obstetrics Bony pelvisgeneral structure integral part of birth canal in fluence of labor Organs of generation-uterus ovaries tubes vagina vulva. Relations of vagina rectum and bladder Breasts Elementary physi-

ology

Physiology of reproduction and pregnancy Men strual life puberty to menopause Embryonic de velopment imprenated ovum to full term fetus Fetal membranes liquor amnii placenta cord Relation of mother to fetus maternal impres sions

Accessity of prenatal care Hygiene of pregnancy

diet clothing exercise

Pathology of pregnancy \ausea and yomitingdegree treatment Interruptions of pregnancy abortion and premature labor accidental hæmor rhage placenta prævia etc Intercurrent diseases beart lungs kidneys exanthemata grippe

Toxemias early and late Causes varietie

treatment

General features stages pains mech Labor anism presentation progress delivery of baby and placenta Analgesia anæsthetics

Puerperal period Involution of uterus lochia care of breasts subinvolution pyclitis pblebitis

puerperal mania sepsis

Co plicate us Prolapsed cord or extremity hemorrhage precipitate labor Operations—forceps version caesarean section induction of labor peri neal and cervical repair

Veubo it fant Care feeding intercurrent dis

eases premature nfants

Ou'

Pricts al d onst t is Each of these hould be extended through two hours and be followed by a

r Anatoms 2 Hygie e of normal pregna cs
3 Car of abnormal pregnancs 4 Prepa ations for
labor normal 5 Preparations 1 labor ab ormal
6 Puerperal ca e n normal cse 7 Care of puer
perium abnormal 8 Complications of pre nancy
9 Care of tovemias o Care of ne b ra

Yamamoto T The Effects of the Roent, en R y on the De elopment of the Fmb yo of the H n

J J Ob t "G

In the e pe me ts reported both eaks ralation (o e 1xth of the vthema lo e f r ma) and strog riralist o (four thirl of the e vthema dose) vere employed F cubation a m the hen vas u ed

Whe the eggs ere expo el to either the venk or the stro girraliation pri r t neubatio io influence was e erted upon the devel pment of the embryo The weaker irradiation failed to exe t an influence also during the early period of incubation

In a study of the effect on eggs at different stages of development the author employed a full dose of rays of medium wave length and a full dose of r v of short ave length He found the injurious effect to be greatest when the irradiation was gi en i st after the th rtv econd hour of incubation After the t vo hundred and forty first hour no demonstrable ntury was produced. When rays of the longer wa c le gths ere used the resulting anomal es were con fined to the lover limb and in general the i juriou effects were somewhat less. However the results in lieate that the amount of damage was dete med by the degree of development of the embryo rather th n by the character of the rays The fractional application of the same dose produced less markedly injurious effects

Fig. 1lly the chickens inch stood the influence of a radiation and e e hatched naturally e e rea ei and the influence of irradiation on their reproductive power and the included of largest fertilized or laid by them was studied. These chicke is began to laive gis in the eventh month after incubation as a discovered and above all no abnormalities in the declopment of secondary sexual characteristics. The incubation of their eggi was also normal

Charles H Heacock M D

## GENITO-URINARY SURGERY

#### ADRENAL KIDNEY AND URETER

Broieldt S A The Etiology and Clinical Aspects of Perinephritic Abscesses (Zur Actiolo ie und Klinik der pennephriti chen Abs e se) 1cta Soc Fennica Duodecim 19 7 viii No 10

In cases of chrome suppurative nephritis inflam matory processes of a hyperplastic nature are often found in the renal capsule and the surrounding fatty capsule at operation or autopsy. In comparison with the great frequency of various kinds of suppurative nephritis fully developed inflammations of a suppurative nature in the region of the kidney are relitively rare. With regard to the etiology and clinical picture of such inflammations there are still.

many unsolved problems

As these inflammatory processes differ widely in their etiology being alike only in their localization near the kidney there has been no agreement in the nomenclature applied to them Rayer called them simply perinephritic abscesses but Gerota find ing that the retroperitoneal tissue surrounding the kidney is separated from the rest of the retroperi toneal tissue by the renal fascia attempted to give special names to inflammatory processes within and outside of the renal fascia Kuester and others des ignated inflammation of the fatty capsule para nephritis Israel who reserved the term perme phritis for inflammation of the fibrous capsule applied the term epinephritis to suppurative in flammations of the fitty capsule but found no fol Rehn and nearly all American urologists use the term perinephritis only for inflammation of the renal fat and the term paranephritis for inflammation of the pararcnal adipose tissue lying outside the renal fascia. The author regards the latter nomenclature as the most practical although it is not always possible to differentiate the various forms of abscesses clinically and therefore inflamma tions localized both within and outside of the renal fat are called perinephritic abscesses

The author's material consisted of forty seven cases of perinephritic abscess from the University Surgical Clinic of Helsingfors Thirty of the patients were males According to statistics perinephritic abscesses occur about twice as frequently in males as in females The majority of the patients whose cases are reviewed were between twenty and forty years of age but some of them were under twenty years and others under ten years of age Two were children two years old. The abscess developed on the right side in twenty four cases on the left side in twenty two cases and on both sides in one case According to the cases reported in the literature the right and left sides are affected with equal fre quency

PRIMARY PERINEPHRITIS

Suppurative inflammatory processes may develop in the fitty capsule either primarily or secondarily from infectious processes in near by organs. The primary type include also suppurations produced by cunshot or stab wounds and dull force

The part placed by dull force in the chiology of permenhatic suppurations has been variously estimated Earlier investigators regarded it as of great importance and attributed to it the more frequent occurrence of such suppurations in males rience has shown that the bacteria which often reach the blood stream in surgical infections seem to cause suppurative processes only when they reach injured tissues This observation provides a certain basis for the theory that the infection of the fatty cap sule occurs directly from the blood stream without participation of the kidney On the other hand those who consider infection from the kidney to be the rule or at least the more common occurrence are able to explain the development of perinephritic suppuration in the absence of trauma. In the cases reviewed there were only four in which trauma could be blamed In certain cases trauma may favor the rupture of a renal focus into the fatty capsule but primary suppurations of the fatty capsule due to an injury seem to be extremely rare if they occur at all

A primary metastatic origin of abscesses in the fatty capsule without a previous truuma has also been suggested as possible but the experiments upon which this theory was based were carried out on rabbits which do not have a distinct fatty capsule and abscesses were formed not only in the cortical layer but also in the fibrous capsule. Moreover the fibrous capsule in rabbits differs in its structure and vascular system from the fibrous capsule in man

At operation on perinephritic abscesses the surface of the kidney is occasionally found inted but this does not necessarily mean that the suppuration was primry in the fatty capsule the renal focus may have become healed before the operation. In general it is contrary to all surgical experience to assume that a primary perinephritis can develop by way of the blood stream. A metistatic abscess is more apt to be formed in the sensitive renal tissue than in the fatty capsule the resistance of which is much like that of the great omentum.

It has been suggested also that the fatty capsule of the kidney may become infected by way of the lymph stream According to Miller infection of the fatty capsule by way of the lymph vessels in in flammations of the bladder and genitalia is theoretically possible since not only the bladder and the region of the genital organs but all of the lymph vessels of the kidneys and their capsules communicate with the lateral lumbar lymph glands. The

pennephnitis suppurations occurring after labor have also been attributed to lymphogenous indection. It cording to Cumston the development of infection of the fatty capsule in the first. ecks after delivery indicates an infection by the lymphatic route but experience has shown that it is typical of a harmatogenous infection. E. on it is admitted that in fect on many occasionally ascend to varied the lateral hymph glands the latter form a tongo barrier. I chindenton can rately overcome. On the other hand it must not be forgotten that during or after I bor the infecting agents in ve aily reach the blo I stream by a vol the lage yound surfaces.

According to an ther the rs the fitty capsule may become infected by way of the lymph tream may become infected by way of the lymph tream from inflammations f the bdomin lysera According to the nest at ons of Franke at least a slight nets ork of lymph es else lea I from the colon to the renal capsule. Ho it most fit he lymph vessels end in the me ha lymph gland hich have no communication is the the kindex is

Finally it has been of smed that an infection may reach the fatty capsule from the thorac c viscora by any of the lymph stream but in the author's opin

ion the reverse more I kely

Brofeldt concludes that p imary suppiritations of the fatty capsule occur g by as of either the blood or the lymph stream are ra e and that in not as gleease of tho ere e ed was such a possib lity likely

#### SECONDARY PURI EPHRITIS

Among the econdry pennephr tic 4b cesses are all 0 1 clue led all suppurations of the fatty capsale which are eff m infects spreed sees in the one of a sand it sue sur rounding the renul c pute. In such cases the infect our process fit produces a retro pentioneal phlegmon and ith latter ruptures not the firty cap ule. As h withouts of the p mary in flammatory processoften loom to the clinical picture such cases agree cluded from this liscussion.

The part played by the k inevs in the et I gy of perinephritic ab ce es is exceedi ly mpo tant and

in chronic tenh ts fully rec g zed

A el t ely large perce tage of all permephritic absce ses are uprurat o s produced by chron c ne phritis. In the author's material the pe i cph ti was due to pyo ephrosis in si cases e I calculus in four cases a f tuberculos s no e c e In the literature chr nic pyeloneph t s fte given as a cause of permephr tie ab c es n l theoretically it is possible that the seco d y cortical abseesses bring it about after direct upture of the fibrous capsule or by vay of the lymph stream follo ing permea tion of the c ps le But neither in his own material n r in the life tue h s the a thor been able to fi dany ea e supporting s chan a sumption Prac tically only the chronic f m of ren I suppuration which produce etentio t the e I pel is a pyo nephro s can cause pe n ph tc b ce ses As re nal stones very often cau e etc ton or proneph rosis they are freq ently the p may factor in permephr ti

The theory that acute hamatogenous infections of the kidney are of importance in the enology of perinephritic ab cesses has lo t co siderable ground

As the nature of the condition in pernephracial and the service of the condition in pernephracial inspection of the kidney the point of orien of the pernephracial above a frequently remains unde termined. Therefore the question arises as to wheth r t i possible to determine from the clinical symptoms alone hen a pe inephracial baseess has had it origin in the kidney and whether in these crease it is p sable to diagn see a possible read aboccess as deformed to the supportation in the latty cap the

According to the author is experience tenderness and tension in the lumbar region depend me exported the metal of the renal poce is than upon its nature and tenderness on pulpation and percussion; fountial on other renal infections as cill as coted abscess of the kidney. Therefore it is difficult to dra conclusions as to the etrolo y of the perior by its from these finding alone.

The changes in the urite in perineph it is are fro quently ery 1 ght and the u ine ofte macro scoppcally clear. Ho er o the basi of the cse re ne ed it may be said that on careful e aminat on the urine usually shows crythr cytes a dleucoytes in the 1 t 1 staces and 1 ter cheff, leucoytes.

Album n is also often demonstrable

With rega d to the bacte iological e aminat on of the un n cases of pe ephrit little can be fond in the literature The urine as ex mined bac teriologically both microscopically and c lturally in the ty four of the author's forty se en c ses Of the thirty six cases of quest o able etiology a bac te ological e um ation was made Staphyloc cc chiefly staphylococcus au eus found in thereen streptococci in the a coccu re sembl g the parapne moc ccus in one dipl cocci n one colon hacilli n five a dan anaerob c bac ilus resembling the bacillus thetoides a one. The cul ture wa ste ile n only four instances Therefo e staphylococc e e found in half of the ca e a dit s pos ible that in the earlier stages of the d case they would have been found more frequently A 1 mal experiments also ha e shown th te pecally the virulent strains of staphylococci are nort apt to produce embolic metastatic cortical foc

Histological at less of c set of renal inf ct a left to the same conclusions. The staphylococcus ureus predomnated in the author's mate at but a the cases of chiminat on neight its reported by Hell r m the staphylococcus along the staphylococcus appears to the staphylococcus appears to the staphylococcus appears and the staphylococcus appears and the property of the staphylococcus appears and the sta

ent v f r the staphylococer

In infectious nephritis in general colon bacillihave been found in from 70 to 90 per cent of the cases but these figures are evidently too high he cause they include also chronic renal suppurations in which as is well known colon bacilli often persist in the urinary tract after the staphylococci and streptococci have disappeared. At any rate the in cidence of hematogenous colon bacillus nephritis appears to be greater than that of staphylococcus nephritis.

In the author's cases of perinciphritis the colon bacillus was found only four times in the urine and simultaneously in both the urine and the pus in only one case. Hence there was only one case of colon bacillus perinciphritis due definitely to acute hæma togenous renal suppuration. Moreover in a review of the literature the author was unable to find a single positive case of colon bacillus perinciphritis.

due to acute renal infection

The author's case was probably one of colon bacillus elimination nephritis in which secondary infarction foci ruptured or reached the fatty capsule by way of the lymph stream. The abundance of leuco ytes in the urine also indicated a pictus type of condition. The colon bacillus rarely produces typical pus foci whereas in the author's case thin pus was found in the edematous fatty capsule. In the two other cases in which the colon bacillus appeared in the urine staphylococci were found in the urine the colon bacilli being evidently secondary inviders of the urinary tract.

The tubercle bacillus has also been regarded as a typical cause of metastatic embolic renal infection but in the literature there is no report of a case in which a typical tuberculous perinephritis was present without a pyonephrosis. Tuberculous elimina tion nephritis is more common than the embolic

metastatic form

Through the finding of bacteria especially of stuphylococci or streptococci in the urine we may establish with certainty provided there are no chronic renal symptoms the simultaneous presence of the excitants of the infection in the blood and thus the assumption of the presence of a perine phritic abscess is considerably facilitated

From the etiological standpoint the finding of bacteri in the urine is not unconditionally indicative of a renal abscess as experience has shown that the excitants of the infection can be cultured from the urine in many surgical infections. However they are not found by any means regularly or they appear for only a short period of time and often in only very small numbers. Although this bacterial elimination does not seem to occur through the intact kidney the renal changes may be relatively insignificant and there may be no clinical symptoms on the part of the urinary tract. However if a true infectious nephritis results its symptoms may be recognized from the urine

It has been asserted that a sudden fall in the fever after the opening of the perinephritic abscess indicates that the infection did not have its origin

in the kidney Nevertheless it has been observed that the opening of a renal abscess is followed rela tively often by a critical fall in the fever. In two of the cases of permephritis following pyonephrosis in the author's material the fever dropped after in cision of the absces but in seven cases it persisted for some time A critical fall in the fever after the opening of the abscess is therefore of no etiological significance Moreover it has been found that corti cal abscesses heal rapidly so that only the complica tion persists and the fever falls after the disappear ance of the complication. In twelve cases due pri manly to an acute renal infection the critical fall in the fever indicated only how circumscribed the renal foci were in these cases. In fourteen cases the fever dropped at first but later there were short febrile periods although the pus cavities showed no symptoms of retention and the amount of suppura tion did not increase with the repeated dropping of the fever Therefore the fever resembled the type which is usually associated with infectious nephritis

I mally the changes in the urine and the fever must be considered together in determining the point

of origin of the perinephritis

In eleven of the author's forty seven cases the condition began in association with a chronic renal infection and the etiology was clear. In most of these the diagnosis was confirmed at operation In five of the remaining thirty six cases a renal abscess was found either at operation or autops). In nine cases the urine contained albumin and a relatively large number of leucocytes and bacteria either in the beginning or later and there were postoperative febrile periods. So many findings suggesting renal involvement could have been due only to an infectious nephritis In these cases the perforation of a large abscess could not have occurred as a commu nication between the renal pelvis and the perirenal tissue was found at operation only once It is more likely that in addition to embolic metastatic foci in the cortex there were also medullary foci from which the infection sprend to the renal tubules either directly or by way of the lymph stream It is pos sible also that in acute pyelitis the infection in volving the renal cortex and producing infectious foci in that region extends to the perirenal tissue either directly or by way of the lymph stream
In five cases the urine was macroscopically clear

In five cases the urine was macroscopically clear and the sediment showed few leucocytes crythro cytes and bacteria but the fever persisted after the operation as in the other group. The author believes that in these cases also the clinical picture was not due to bacterial elimination alone but also to em

holic metastatic renal infection

In five cases the urine continued albumin and numerous crythrocytes at first and numerous leuco cytes and bacteria later but the fever dropped by crisis after the operation. The fall of the fever did not indicate the absence of a renal affection but suggested that the renal abscesses were limited to a circumscribed area. Although cysto'copy was done in only a few of these cases it indicated that

the urinary cha ges in these ases also in which they were relatifiely insig ficant were not due merely to bacterial chimination

In two cases the une contained leucocytes but was sterile. Howe er as considerable time his passed ince the begin ing fithe illness the renal abscess may have healed in the bacteria may have disappeed from it.

Even in the urine of ormal pe ons isol ted leucocytes may be fo nd but as a r le epithelid ceeds the present in ad I tom Also in behale d. ae sthe urine may cont n a mall amount of albumin hyaline and epithelial cat s ep thelial cell a d isolated leucocytes

In hamatogenous embolic focal eph its in the other hand, the urine regularly contains leucoc tes and crythro yet chieff in the beginning of the dease but in general the leucocytes a e mo e numer u than the other f mel elements. Bacte alfaling are extremely important a dra ely beent

The author therefo e concludes that e en case with rel ti elv ins infic at u nary changes it is p sable to determ ne whethe or not a re al abscess is the ultimate cause of the per eph ts not only from the quantity lut also from the quality of the unnary sed ment

#### THE SINDROME

The dise e may beg neithe ve y acutely or n sudiously. In thirt the ec of the autho scases it began relating the suddenly with a ting pain in the began relating to the intermittent type. In the intermittent type in the intermittent type. In the intermittent type in the intermittent type. In the intermittent type in the intermittent type in the intermittent type. In the intermittent type in the

In thirt, o e c es the most nate orthy and const nt ymptom was p in in the lumbar egron. In ome c ses this rad ated to the u eth. the per i eum the inguinal reg n o thet igh. In severe l cases there as li uria, thout marked urina y changes. Ya su let histringus vid not I tong. Every moveme taffecting the kidney, e en re pia a toon necessed the pa

In furteen ca c the d ease began 1 s hously with d ffuse sympt ms such as last tude but ult mately a swell ng in the lumlar eg n noted As a ule ho e er the t p cal p s in th lumbar region de elojed b fore the s ell g hal become mark d

In many case the disca beg ith acute of fuse ymptoms r ymptom local ed in th tumba region which persited fo several days in I then ceased. See all ekslite there a negurative high the trends of the perineph tiver fith the trends fection evidently developed lurg the fit att ck.

After the f'rm ton i the pri cphrt c abscess the lumb pain became ontin u and in the majorit of the case a l mbar swelling app ared When the pu as l calized behind the kidnes or at h lower poi of the k dines the s ll g was d fi

cult to palpate. When the kidney could be palp ted, it often seemed to be enlarged and sur get del areal tum r. In some of the ases nothing pathologent could be found in the kidney region at first eye call, when the abscess lay at the upper pole in mo t c es hovever the tumor mass vas quite large e tending from the border of the ribs to the lace crest and to the umb licus.

Typical of the con lit on is the restricted mobility of the L dincy on respiration and on attempts to more it by pripatin. In the later stages fluctuations removed Gradually the lumbar muscles become infiltrated and the jusperforates subucultate oasly into the lumbar region or the lower pat of the ab lomnal wall. Relatively often the c tension of the process d winward along the leopsors muscle cause flex on of the hy a do on thereafter a re-

cause they on of the n p a d oon thereafter a restance s noted in the ilne f sas or the ngun I reg on In some cases obstipation may be present Perfo atton of the pus into the perito cal cavity i rate and usu fly facil.

When the abscess situated at the upper pole of h k dney the loc 1 sympt ms e at first mig n nica t. The first sign of the condition in such a care plunt symptoms a d pain and tender ne below the border of the r bs and in the hypoch n 1 um. After the abscess has ruptured into the subph circ space it causes ther symptoms a d dull eas we the loc portions of the lugs a dipleurs, are often found.

#### DIAGNOSI

A udden o set with fe er chill p as in the bumb r egion a relatively clear ure the the leue evt and striphyl cocc are christer to fembole metastat c abscess f the en blot but a dignos of periophyl the ab cess realered por it eoly by p tie pu cutre finding postic ronigen ray findings or a svelling in the region of the kdney.

#### TREATMENT

It ge rally agreed th t supp rative foot and pringentime to be teated surgically. Whough a cut is sometimes obtained by conse vait is trut me t surgive, are better reults. The result of ungever are best when the oper tion is performed arily. Ho e er operation is it deated only better trues unground of performed and the description of performed arily.

In the author cases the usual bloue I mbar caso s used The surf ce of the 1/e ys pal pated and fl ctuating areas ar broken into with the figer In all of the a thors that no ecase he e oper tell up no 1/9 one 1 no as nad at first and I neph ctomy as leemed noessary in and neat ase of stage The only explusive ere see of pyonephrosis I who the b cook in the country and the stage of the construction of the country and the stage of the construction of the country and the country are seen of the country and the country and the country are seen of the country and the country and the country are seen of the country and the country are considered as the country are considered as the country and the country are considered as the country are considered as the country and the country are considered as the country and the country are considered as the country

When the absc s had g avitated to the ing al reg a second c ion i the lumbar r g on a nece ry

The after treatment of the absce cavity as car ed out cc rding t the usual su gical p neiples

The postoperative complications were relatively slight. The fever dropped by crisis in ooly twelve cases in the rest it dropped by lisis or lasted a few days longer and then dropped. In several cases the febrile picture typical of infectious nephritis per sisted without symptoms of retention.

There were no serious postoperative pulmonary complications. One patient developed ert spelas and another a faceal fistula. In one case a nephrectomy was followed by a large faceal fistula. The abscesses usually healed quickly. In five cases herifing occurred in a few weeks in twelve in a month and in two in four months (complications). In cases not operated upon healing required from three to four months.

#### PROGNOSIS

The prognosis of perinephritis due to pyonephrosis is extraordinarily poor but in the other types of cases it is relatively favorable

Louis Neuwelt M D

Corbus B C and Danforth W C Pyclitis in Pregnancy J Urol 927 x ii 543 Pugh W S Pyclitis of Pregnancy 1ts Treatment with the Indwelling Catheter J Urol 197

Crabtree E G Stricture Formation in the Ureter Following Pyelonephritis of Pregnancy J Url 10 7 xum 575

Corrus and Danform review cases of prefits of pregnancy supplementing their report with pyelo grams. After termination of the pregnancy definite changes in the urinary tract were demonstrated in all but the authors believe that in some instances these changes were present before the pregnancy began the neute attrock of urinary infection during gestation being due to activation of the original lesion by the pregnancy and in some instances additional obstruction produced by the pregnant uterus. As the termination of the pregnancy does not curr, the urinary infection the treatment should be continued until the urinary tract has become normal or as near normal as nossible.

Pugi states that the treatment of pyelitis of pregnancy should include the forcing of fluids and drain age of the renal pelvis by an inducling ureteral catheter preferably a large eithere opaque to the Yrays. The larger the catheter the shorter the duration of illness. Though there may be some discomfort during the early stages this will pass away as drainage is established. Operative intervention is rarely indicated.

CRABTREE concludes that stricture of the ureter due to pyelonephritis of pregnancy may occur in locations not affected by the fetus. The delay of symptoms until several months after delivery he attributes to the fact that during pregnancy there is a dilatation of the entire ureter and renal pelvis. He reports a case in which a stricture of the ureter demonstrated prior to pregnancy subsequently dis appeared in the ureterogram but everal months after delivery could again be definitely seen. He

reports also a case of urcteral structure following acute py-elonephritis of pregnancy which showed a direct relation between the kidney condition and the blood pressure. Following a nephro urcterectomy the blood pressure returned to normal and the general condition became markedly improved. The pathological specimen showed cicatization of the ureter for a distance of about 3 cm. this indicating that palliative distantion of the ureter would probably have fulled. J Synger RITTER M.D.

Moller W A Simple Improvised Method of Extracting Deep Calculi from the Ureter (Einemprox) ierte und einfache Methode zur Extrakt on tiefsitzende Uretersteine) Acta cl ri g Scand 10.7 km 367.

In the extraction of a calculus from the intravesical part of the ureter the author made use of a pair of Bruening forceps which are intended for the extraction of foreign bodies from the bronch! He inserted the forceps into the bladder at the side of the cystoscope

With the use of suitable end pieces this instrument may be employed partly for dilatation of the uniterial orifice and partly for grasping and extracting the concretion. Its introduction is simple and the manipulations which can be controlled by direct vision are exact punless and apparently free from danger. The use of the instrument should be restricted to concretions in the lowest part of the ureter in the female.

Hunner G L Ureteral Stricture and Chronic Pychitis in Children i J D s Cl ld 192

In most of the infants and children treated for chronic puelitis by the author ureteral obstruction attributable to ureteral stricture has been found and in many cases the establishment of urinary drainage by dilatation of the narrow area in the ureter ha resulted in a cure. It is generally believed that the only treatment for chronic pyelitis in children is medical and dietary or in extreme cases surgical To date the additional use of vaccine has proved of no value The treatment of chronic pyclitis in chil dren has been based on the supposition that the condition is secondary to gastro intestinal disturbances but since the prologist has found that the gastro intestinal disturbances often clear up after the establishment of effectual renal drainage it is evident that when such disturbances are associated with definite symptoms referable to the urinary tract the treatment should not be limited too long to the gastro intestinal tract

The author believes that most of the chronic in fections of the upper urinary tract are located in the renal pelvis and may be classed as pyclitis or in fected hydronephrosis. The view is supported by the observation that in 80 per cent of cases of uretest stricture with virying degrees of stasis and dilatation in the upper urinary infection or history of previous infection, and in the 20

per cent hich show infect on the pus disappears pr mptly and the ur e becomes sterile after dilata t on of the ureteral stricture and the establishment of

go d framage

Failur f the pyel tis to clear up p omptly after dil tat n of the strictu e in the lower urcter may be due to ( ) persiste ce of the parro 1 g because of rep ated irritat o from some d stant focus of n fect n ( ) second ea of narrowing at o near the pel u eteril ju cture or (3) a unusually la ge pelvi vh cl cau es le cen us of the L dnev and

the by nterfe with danage

I cases of the t type the eradication of the fo u f tati n vill re ult n perma e t dramage i da cure f the pyelt In cases with a sec ad rea f n o ing the passage of bulbs of c eas g ie t th e al pel i ill effect a cure In cases f un lly large e al pel the release of ad l dl tat n of the pel 1 urete al str c tu reject nof the laiged pelv and high t atto f the kd vare ind atcd

Lo aphic k ks ar till interprete I as the caus I man u cle nephropex h ve been per f me i for the correction I equently ho e er blatatio of the origin I los er stricture is follo e ! by sp t neous repl cement of the pr lap elkd ey th eulting god drainage and cla g of the

nfection

In p actic ily all cases f t ctu e of the ureter th re me ditant foc li fection. As a rule th patient returns for epeated ureteral dilatations s l ng as such a niect on persists but hen the focus is rem el a permanent cu e usu lly results afte a f m re dilatat ons Th effects of a st ic tu e m v he ote l relati elv late n l fe Acco ding to ecent n estigation of Scheher t ctue may re ult also from co gen t l m lf m t s ch as the ac entu tio of a no m llv ea n the urete kink oh t uct due t c s g natornical st uct such as tl v s def e and uterine ntex thee talp sucf deal tumor a till mm tn light urete al wall

I ome c pyelts m 3 be the result of cy tt but n most ca e th e had been a part il cl u of th u t al lume with secondary st s of ur e the upp u ary tract If the u eteral ch l a p v ly no mal dramage f the kil nev 1 u unlly e e tabl hed as soo s the cystitis sub des and the infection in th & dney subsi le synchronously with that of the bladder Whe the e is continued stas s in the k dnev due to m lp s t on when perinephr tie r pe u eteral adhe o s have levelope I du g the c te attack a d when the e has been a l te t u eteral str ctu e with sta the acute py ! t may pers st u t i the urete I channel

S ce the part pl yed by ureter 1st icture n most chr ic renal fe tion h s bee recog ed the good result obtainel f om renal l v ge hive b attributed t the dlat tion th the ren l cathete rather than to the olution u ed

In the ty four cases of renal invol ement in chil dren fifteen years of age or younge the follo and conditio s we e found pyo cphrosis one c se had onephros s si cases hematuria three cases genital malformation one case renal calculus two cases tuberculo is fourteen cases and chronic nyelitis t elve cases LOUS NUVELT MD

#### GENITAL ORGANS

Wildb iz II T sts of Renal Functi n in P ostatics
(U b N f Li pr f c b P st u
L ) Zi / f | I C / 9 7 x 4 6

The author eports his lat 135 prostatectomies in hich the functio of the kidneys as determined before the ope ation by three methods viz the dilut on and co cent ton test the die excretion test and determin tio s of the residual urea in the bl od

The dlution and conce tration test of Strauss po ed to b the most s nsitiv test the fi st t sho a loss of sec etory po er In none of the nationts w th mo e than 100 c cm of residual urine vere its re ults normal P ticul ly the p wer of concen tration as considerably d mini hed as a rule but this morey d p dly nder regular cathete ization The c off cs nt f Bech r proved t be of littl lue

The due t is (indig carmine a diphenol ulphone phthal in) howed defects e renul funct in less regularly. The author als ave njects the due int a muscula ly s the entray nous injection of foreign substances a not all ays ntirely harmless. He pre fors phe I ulphonephthal 1 hecause the amo nt of dve that c eted 1th n the f st and second hous is f chi i mpo tance nd this is ca er to estimate 1th phen I ulph nephthalein

The auth r d termined the amount f r sidual urea in the bloo i by the hypohromite method vith the use of the I auterbu g upparatu a pr cedure hich quites only c cm of blood If c naiders 50 mgm of r s dual urea in o c cm of blood se um s a no mul amount (ma imum) As a rule th peratio vas d ne only he the residual urea in the blood as I s than 50 mgm but n a numbe of cas sit as pe formed he the alues ere higher because the oth tests of function sheed good values-70 80 and 85 mgm. In one case 1 1 h ch there ere 8 mgm f es lual u ca and the other t stanks sho dp r es lts le th courred eight days afte the op ton whe the dual urea h l t creased t oo m m Thi as the ly de th fr m uramin 1 the se ies f 135 p ostat ctomies

In mm up the uth r remarks that n ne of tbe method sed is al e dec e as to bether the dt of the kd vs ll or ill not allo 3 so ostate t my In u f vo able sult of the dlu t n test is not t tself a lefinite cont indicat on to post tectomy but it s r es as antgad t licat s the tmp rince of the use of the fu c t I te ts in a ldit n A f vo able result of the t toper other had ie a cocet tofoer 7.07 f the specific gravity betwen a minimum and a maximum of more than ooi5 seems to indicate good renal function

With the phenoisulphonephtbalenn test (intramus cular injection) the limit of operability in the case of a prostatic is indicated by the excretion of 10 per cent of the dve in the first hour provided the values are considerably higher in the second hour and the other functional tests show satisfactory results. As a rule all three tests result either favorably or un favorably. When this is the case the decision is easy. In other cases repeated control tests are necessary. Each method gives information regard ing only some of the function of the kidneys and a poor result of a single test does not necessarily indicate renal insufficiency. Only high residual urea values in the blood are an absolute contra indication to operation.

In determining the operability of borderline cases the author considers not only the condition of the lungs and vascular system but also the possibility of performing the prostatectomy by the perineal route. He regards the perineal prostatectomy as less injurious to the general condition than the suprapubic prostatectomy and has observed also that the residual urea in the blood after operation by the perineal route rises much more slowly and to a less extent than following the suprapubic procedure

Wildbolz urges treatment by regular catheterization for some time previous to prostatectomy. Even very scriously defective renal function may be so improved by the relief of urinary stasis that after a few weeks the operation can be carried out success fully. For this preliminary treatment, the author prefers regular catheterization or the use of a retention catheter to the two stage prostatectomy since in certain renal injuries the preliminary suprapuble section may itself produce uramia. But the surgeon should not be led to perform a prostatectomy merely because the clinical picture has improved under preliminary treatment his decision to operate should always be based on the results of repeated tests of renal function.

JANSEN (2)

# Thomas B A and Robert J T Prostatic Cal culi J Urol 927 xviii 470

Prostatic calculi may be classified as primary or endogenous and secondary or evogenous. The for mer are septic or aseptic. It is now thought that they begin as corpora amylacea the result of natural function. They are at first composed of organic matter but later are impregnated by earthy constituents becoming dense and opaque concretions from the deposition of calculm phosphates and car bonates. Inflammation and obstruction and the process and infection plays an important role. In 68 6 per cent of the cases there is no history of gonorribous.

I hosphatic calcult have been found as early as the tenth year of life but they occur most often in the fifth decade. The vast majority are intraglandular. I hey are found usually in the lateral lobes and as a rule are bilateral.

Prostatic calculi are most commonly associated with chronic prostatits and frequently with neisserian infection. They are rarely found with malignancy. Their most common symptoms are frequency and difficulty in unnation burning urgency hama turna retention of urine and perineal pain.

The most reliable method of diagnosis is \ ray examination Rectal examination reveals crepita tion and a nodular or stony hardness

Scrious sequelæ may be averted by early intervention. Prostatic calculi do not tend to recur

The best treatment is prostatelithotomy with thorough removal of all particles. Sometimes a stone may be crushed and removed through the endoscope. Bryjami F. Roller, M.D.

#### Thomas B A Vital Factors in the Management of Prostatic Obstruction Ani Surg 1927 1888 1 563

As a prophylactic measure in cases of prostatism Thomas urges early operation before organic complications set in In cases of prostatic obstruction existoscopic examination is necessary to determine not only the type of obstruction but also the presence or absence of associated pathological conditions such as diverticulum tumors calculi and hypertrophy of the trigone. In about 10 per cent of the cases some form of bar formation and a contracture of the bladder neck are found.

In deciding whether to operate or whether to permit so called catheter life the author s axiom is Operate if you dare to and catheterize only if you must When possible surgery is better

Operation should be preceded by

1 Determination of the kidney function by estimating the blood urea nitrogen. A reading of over 30 mgm denotes a poor risk. The author determines the quantitative ebmination of phthalein making collections during three twenty minute periods. When the kidneys are damaged the duration of chimination is delayed and hence the output of the first interval may be almost in at times. When the output is less in the first period than in the hidr period injury of the kidneys is indicated.

2 Å study of the cardiovascular system with pur recular attention to the blood pressure readings. When in cases with low tension the systolic pressure is 110 or less the diastolic pressure must be over 60 when the diastolic is less than 60 the systolic must be over 110. When in cases of high tension the systolic is 180 or more the diastolic must be less than 100 when the diastolic is astolic must be less than 100 when the diastolic is over 100 the systolic must not be over 175. This is not pulse pressure in the usual sense but rather pulse pressure with systolic and diastolic limitations.

3 Routine tests such as the blood Wassermann reaction the determination of the coagulation time of the blood routine blood sugar estimations and examinations of the central nervous system for evidence of disease

Age per se is never a vital factor in prohibiting surgery of the prostate. Modern urology which

has made an art of both pre of crative and post operative care has reduced the operative mortality

from 50 per cent to less tha 5 per cent The author prefers the use of a retenti catheter

hen no s ble to fir t tage custotomy A view of the bladder neck is the best inde s t whether surgery should be do e by the suprapubic or pe i neal oute o by some f rm of pun b operation The suture ligation of the blee ling point at the time of pot tectom is favore i lacking of the pro static bed; cons lered the leat de irable methol of cont oll ng hæm h ge Vasect ny d conly for recurrent epididymit. If emboli m phlebitis and epd lymt et bepentel ld me mut not be allo ed out f bed too oo M D

#### MISCELLANEOUS

hr tschme H L Urological Problems n Infancy and Childi od J U I o 7

The author en we the urolomical and gent the ca s of ei hty s v chille gig in age from tventy seven d vs t f urteen years. Twelve of the children ere under two v rs of age Forty two vere boy With the e certion of py 1t the inci cence f the var us le ns as about the ame n both seve Pvelitis was foun I more frequently in girls than in boy

h et chimer is of the opinion that medel te t ment of u olog cal con lit f equently cont ue i too long but that I the ca e of cl ldren it should always be tried befo a complete u ol g cale mina

tion is mad

In the pa t cyst scopy v th ureteral cathet z t on h been reg l d sinady abl in the ca e of chill en because t sa major pro du e requi e an anæsthet c and i ofte f ll elbs a ve e reaction The author belie es that all of these obj ctio s re unfounded fth rologist h b en prope ly tai d a d if the p ope instrume t are used In h opno the init n for cyt scopic e mit n are the same in fint and child en as in dult

Besides the establishment of urological diagno es the urologist is being called upon more a d more frequently to make differential diagnoses of abdom mal c nditions and to differentiate between lesio s of the ri ht upper quadrant of the abdome and the right kidney

In Kr tschmer's method of procedure a complete histo v is first obtained 1 complete physical ex cluding a sea ch for f ci of infection is the made The th d step is a caref I examin ton of the u ne This is foll wed by an \ ray e amina tion of the urinary t act to demonstrate possible calculi or if tube culo is of the kidney i suspecte! the pres ce of calcificat n (vstog aphy is of do e as a r uti e p ocedure but may mye ahable inf tmati n he physical ex mination eyeals a sup pub c tumor l'ests of enal functi n re always carried out an l e e pec ally imp to t in cases of rec nt acute nfect on of the k dnev in which cysto cop ce amigationa dos lographs might beda er After Il f the other e ami ati s have been m t cy to copy ureteral c thete izat on and pye I graph are done Thes vam nat ons are rendered n saide in the c ses f children by the ery small alibered cyst copes that are no a slabl. For a rap d techn que practic i e sent l The ath r pref t i duce a sesthe a ith

ethyl n but st t that there s little object on to the at thit cafe emputes should be sufficent for u ete al catheteri ation. In many cases cysto copy and ureteral c thet 1 tio can be d ne under

la æthe t

I c d k tchme tt th t at the pre e t t ge fadva ceme t of m d c l k o leige a complete prological study a definitely dicated i all urological c nditions n children v h ch do not e pond promptl to medical treatme t He has f nd that a strumental therapy such as a age i r pyel to and I tholap v for bladder st co d ut th th am pr cisi in ch ld en a in nd that the ug alt eatment of th aro adult child n p se ts no specal p obl ms les o H NEY L S ORD M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS
MUSCLES TENDONS ETC

Bernstein N A and Arens R A Epiphyseolysis Rad ology 1927 1x 497

Epiphyseolysis called also slipping epiphysis acute eniphysitis and eniphyseal cova vara a condition of uncertain etiology. It is claimed by many to be due to an endocrine disturbance but bas been attributed all o to often repeated slight trauma It occurs most commonly at the age of adolescence It results pathologically in softening and separation of the epiphyseal cartilage which cause the head of the femur to separate from the neck. When the separated head is reduced and maintained in normal relation to the neck at becomes re attached The condition often leads to moderate coxa vara It is associated with considerable pain muscle spasm muscular rigidity external rotation and adduction of the thigh. In most cases only one hip is involved but occasionally the separation may he hilateral

The authors discuss the various theories regarding the etiology and the etiological factors noted in the cases observed by them. The mechanism involved in the production of the condition is described and the roentgen findings noted at various stages are given in detail and illustrated by roentgrenorrans.

A diagnosis in the early stages before there are well defined roentgenological findings is very difficult if not impossible. The presence of a beginning epiphysius is suggested when a young adult suffers from acute pain in the hip point or as is more usual a pain in the knee with the progressive development of disshith; Examination may reveil adduction external rotation slight flexion muscular rigidity muscle spasm shortening of the extremity and limitation of abduction. The roentgenogrum may show a slight loss of density of the head of the femur widening of the epiphyseal portion of the neck. When separation of the head bas occurred the diagnosis is not difficult.

The condition must be differentiated from acute septic epiphysitis tuherculosis fracture of the bip and Legg Perthes disease

The histories of five cases seen by the authors are given in detail

ADDLIFH HARTUNG MD

Rogers M II The Formation of Rice Bodies in Tuberculosis J Bone & Joi a Surg 1927 ix 636

The study of a case of tuberculosis with positive guinea pig inoculations and microscopic findings revealed that rice bodies are composed of tuberculous material are first attached to the wall of a tuberculous cavity and are formed from the center of a UNIVEL IL LEVITION MID

Bressot and Fischer Two Cases of Periosteal Sar coma One Patient Who Was Treated by Roent genotherapy Has Remained Cured for a Year and Eight Months the Other Who Was Operated upon Died Five Months Later (Deux cas de sarcome per o tique I un traite par radio thérape reste gur it depuis vinet mois lautre umput meurt en cinq moi) Lyon chr 19 7 XVI 45

The first case reported was that of a man of twenty five years who developed a tumor on the upper extremity of the left humerus. The arm was intermittently painful and the circumference of the arm at the center of the tumor (which was on a level with the center of the deltoid) measured 4 5 cm more than the circumference of the other arm. The chinical symptoms—slow evolution of the growth and only moderate local disturbances—suggested that the tumor was benign but the roentgenogram showed the changes characteristic of periosteal spindle cell sarcoma as established by Tavernier and others.

As the patient refused to allow amputation roent gen treatments were tried heing given in two series of sixteen daily sessions each with an interval of two months between the series. Both anterior and posterior irradivations were made. The total duration for each site of application was three hours and twenty immutes for the first series and three hours for the second series. By the end of the first half of the treatments the size of the tumor had diminished by ahout one third and the pain had ceased entirely At the close of the second half the patient was able to resume his military service.

Subsequent examinations carried out at intervals during 1926 showed that the regression of the tumor had continued after the termination of the treat ments. One year later the size of the left arm was reduced to normal all clinical signs of the tumor had disappeared and the general condition was excellent. The patient was still in good health in January 1927 when he was last seen. The last roentgeno gram taken in March 1926 indicated almost complete resorption of the tumor regeneration of the cortical layer and cicatrization of the persosteim.

The authors second case was that of an eighteen year old boy who was placed in a plaster cast after a swelling in the juxta epiphyseal region of the tibia had been diagnosed as tuberculous arthritis. On removal of the cast forty days later the clinical signs indicated clearly that the tumor was a sarcoma of rapid evolution. This diagnosis was confirmed by a new roentgenogram which showed that the neo plasm originating in the superior epiphysis of the tibia bad broken through the cortical laver and

n aded the joint. The head of the fibula and the love portion of the femoral condule we already in lied No metast es we e discernible

A high amputation ith the his sidone but to month late a m t tass appe red in the cycball enuclated a liradia a w sappled Afte nother mo th meta tase appea ed simul ta eousl n th I ver ja van i the I mbar re ion Loe tgent tm t s ned to cause mpro em nt but t nths lat another m ta ta i app ared in the pli I th treatment s then abin donel th p tint a an a lyanced state of che a H di d oon fte ard

In the liscus on I this ep t TANERSIER cit d three ca tof his hillust age the action I the th round cell and the spedle cell

t ti ely s c ma

Il st t ith t th und cell sa coma dis ppea s quickly u der the flue ce of the rays. In he f the case cit I tmrth sze falarje ilmon l I the out cxt m tv f the cla cle vas educ d to les than on furth f tso ig al ize by the end f thit en days of t tm t ni itht days I ter had nti l d app d lh ir d ti ns totalled i ti hos tent n tv m ditnee om flt ton o nm falmı um) l nty rradı tı s re gi e for a h f th e te of application-ante io t too daill ry Vecond y tumo agg a ed on the r side of the click fu ceks I ter a educed by smila treatment t tallin t enty thr hous nd appled ant r riv onl Ih cluge l in the retge gramaem malbevend eturn fthe clautles of the bone and the opla tierress e finilt ton and I tuct n ather than n of p liferation a d eps 1

The reaction f the spidle ll sar oma i quite life nt The pain es ithi the fir t fe day nrp et th tr tment but the r e th tumor 1 sl d inc mplete and there mark d tend no fr the t sparent potos t o sift a if th , hibit d the prolife at e prop

of th sa mat us st blasts vh le ncreas g th 1 po r of o teog e s These e forma t ns e g du lly re bed but th b e retains ac tin b rm l den its h b in the trst case ri tdb Brest and I chers m to ha e rahdadhout est t by the end f the fit yan m dictin ha g cou dis ce These cult t sn doubta countly the a h b don m nt f ma t eatment inficacius T e er ttr b te th h b tual failu f ih m thod t lack ipc e e a ce nd s uff c t dosage 1 G R LE V

D tt ich K on Ti R gene r n f Tend 1 (U be S b L 1 ) i i f th b 1 ) 1 / f th p L f ll Cl a

on the bar of cl al The auth r lis mater al th t u which take part in their gene a t nof te d n th rôle played b funct ni this r ene tio nd the correct operaty t I jelr

tendon transplantation and the repair of tendon murics

From he tological studies he has come to the conclu on that the inner an louter lin ngs of the tendon take; rt in the regeneration. Fun tion he believes has les fluence on the o igin of the germi al ti s e than n the contr ue l diffe entiation and organi a tion of the reg nerat ng t ssue Too early and t o prolonged moven ent may cause overprod ction of callus but when function ; begun too late the differe tration of the tr sucs is hindered. The best time for the beginning of function is the fourteenth day after the 1 jury

Eichoff E The Pathogenesi of Tendovagin tis Stenos ns (Zu lath n e d T nd onnt t ) Bet kl Cl n 7 x x: 746 ĊI 9 7 X X1 746

E choff d scusses DeQuer ans tendovagints on the basi of fi e cases treated at the Coen n Clinic The cond tion develops following t uma or fter lo g cont nue ! manual labor which requi es ulnar abduct on of the hand with a fi ed th mb In the position the tendo s f the e tensor ill ci longu and the abductor policis be sa d their te don he this a e stretched o er the styl d pr ce of the radi s As a result there occurs a fual the Lening f the tendon sheath which finally h d fee acti n of th te dons

E am nati r veal s elling a d marked tender ne s a the r d al sid of the wrist o er the styloid prices By a mijor operat n-splitting of the t ndon she thand veision fa portion of its wallthe coal tion ca be immedately remeded

In microsc p e am ation of an e sed piece all th author found that ma k d th ckens g fth had occurred n all of the layers but e pecially in th n room t ve ti sue layer h ch shoved a eas of uperficial hamo rhage and small discrete foci of necro s The co d t on is a chronic inflammation of th ti su character zed by ew formation of bl od es el v thout defi ite e dative processes

M RUE L (Z)

on VIL nd Woolt n W H Isol ted Gant Cell \ nthomat Tum s f tle Fi M on M L nd Hand 1 / Sr or

The auth rs emphasize that they are di cuss ng only the olat d type of ranth m tic tumors which ar found most f equently on the hands and fingers and do not include the other forms of anthom ta r ccum lations of anthom tic ti sue hich occur

multiple gro that a ous p rts f the body as m lestation of certain skin d se or as accum I t as in oth tumors These neopl sms are a sously kno n a myelomata myel id tumors myel anthomata endothehomat and g anulo mata Thy usually de elop f om the tendon he this but they may a use also f om the buse. 1 mt I gaments a d palmar fasc As a r l the) ar n dular tumo s about the si e of a hazel nist hut some I them re considerably la ger and in

ne case repo ted the gro th m ol ed the olar

tendon sbeaths and wrist joint in much the same fashion as tuberculosis

On cut section xanthomatic tumors look very much like adrenal tissue having a marbled appear ance with a mixed coloration of red and yellow the latter being the color from which they received their name. The color is due to carotin and xanthophyl and not to cholesterol.

The micro copic picture is characterized by the presence of foreign body giant cell often in large number and by foam, cells or xanthoma cells which are large polyhedral cells with cytoplasm hiled with vacuole containing cholesterol. Fibroblasts adult connective ti sue blood sinuses deposits of blood pigments and recent areas of hamorrhage are found. There is no element which is incompatible with granulation it sue. The vanthoma cells seem to develop from endothelial cells and fibroblasts by the taking up by the latter of cholesterol and other lipoids resulting from the destruction of tissues.

In three of the cases reported blood cholesterol determinations were made and were found to be within the normal limits. The authors conclude that there is no evidence that the isolated tumors are the re ults of an increase in the blood cholesterol despite the fact that the multiple growths are often

as ociated with such an increase

The tumors occur as a rule during adult life and trauma appears to be a factor in their development Females are slightly more often affected than males Ot the tumors occurron the night arm 6, per cent occur on the right arm or hand In decreasing fre quency of involvement the areas of the hand in which the tumors develop are the index finger the thumb the middle inger the little finger the palm the ring finger and the wrist. The tumors are most common on the flevor surface

Ten symptoms are produced by the e growths. In are instances there I pain or tingling along the higher. The tumors have a tendence to grow after being traumatized hut thi is not to be taken as evidence of malignant change. They have the consistency of a fibroma. This characteristic and the vellow and reddish brown coloration are enough for the macro copic diagnosis. They are quite being, and do not produce metasta es although a certain percentage recur after their removal. If well removed they do not tend to recur but when they form again a second local removal rather than a mutulating operation is indicated.

Herndon R F Three Cases of Tabetic Charcot s Spine J B & & Jo 1 Surg 1927 18 60

The author reports three ca es of Charcot's spine in men with the typical neurological signs of well developed tabes

The first vas that of a miner who had been squeezed hetween a pit car and a nh of coal ten vears previously. Five vears after the accident a lump appeared in the lumbar region. This slowly increased in size but did not interfere materially with the mans work. The lumbar remon of the spine was

slightly sbortened and its central portion presented an acutely rounded almost angular kyphosis with slight scoliosis. Palpation revealed a hard not tender thickening. Although this portion of the spine was fixed the mobility of the entire spine was greater than normal so that in bending the patient appeared to have a hinge in the lumbar region. There was also painless disorganization of both ankle joints.

The roentgeno, ram showed advanced destruction of the second and third lumbar vertebræ with com pre sion rotation and scoliosis. The intervertebral spaces were obliterated. The involved vertebræ were bridged and supported by large osteophytes.

When the patient was examined again four years later there had been marked progression of the condition nith such disorganization of the lumbar spine that he was unable to hold his trunk erect without support. The roentgeongram showed almost complete disappearance of the fifth lumbar vertebra and crossion of the upper part of the sacrum.

The second case was that of a miner in he experienced pain in his back about two weeks previously while lifting. His spine showed a sharp kyphos extending from the eleventh dorsal to the third lumbar vertebra. Movements of the spine were normal except that the segment involved was fixed.

The roentgenogram showed a relatively early process involving chiefly the first lumbar vertebra but causing destruction of the space helow it tilting and rotation. O teophytes had already produced

anky losis

The third case was that of a farmer nho after ten years of tabetic manifestations developed weak ness and lameness of the left leg and later a punful catch in the loner back with pain radiating generally into hoth legs. Hi back became tured easily and he found it inksome to sit or stand for any considerable length of time

I hysical examination showed shortening of the lumbar region and a sharp kyphos with its greatest prominence over the fourth vertebra. The roent genogram revealed almost complete destruction of the fourth lumbar vertebra with mushrooming and enormous profilerating osteophy tes on either side.

The untial change in Charcot s spine seems to be a miple breakdown of one of the lateral articulations of the vertebral body associated with a decrease in the cartilaginous space. As the bony destruction continues there is compression of the vertebral body with diplacement posteriorly, and laterally. Usually the process is firmted to one two or three vertebra.

o that the deformity is localized and acute Pro hierative changes are abundant the affected region of the spine being usually ankylosed Separated fragments such as are frequently di covered in the knees and ankles are rarely found in the spine

The local findings are characteristic. In addition to more or less swelling and inditration there is usually a sharp kyphos with more or less lateral curvature and rotation and some shortening due to compression. The involved ection of the spine is

usually rigid because of ankylosis by bony depo its Ho ever the m ements of the entire spine are usually no mal or increased by the l cal disorganiza There is practically no tendernes and no in oluntary muscle spasm

One of the nost cha acteri tic features of Char cot s spine the d spropo ti bet en the se criti of the process li closed by the centrenog am and the sight discomf rt and d sab lity of hich the

pat ent c mplains

Boorstein S W O teochond Itls of the Spine wth a Rep t of Tvo C es J/ S 18 97 6 0

Vertebalenthy itis is charact ized by d to mity of the spine in the form of a knu kle o a ge eraliz d kyphosis o scoliosi vith I ttfe or no p n

The ro ntg no ams u ually h that only one ertebra 1 affected This ertebra as es a cun 1 fo m shape The e no involume t of the d ks above or below it The ca t lage 1 us lly thek

The etiology of the condition a 1 L gg Cal s d sease and Osgood Schlatt r d case is u k o n

In the treatment immobili ation in a pla t Paris tacket or brace is indicated. The

the infect on should b s ught In order that the clinical syndr me if o teo chond its of the spine may be delin tely estable hed e ery ca e of spi al def rm ty su gesting the con d tion should be stud ed

The author reports to cas sin det il M D Ð H L

Fagge C II On Inju i sof the Sem lun Ca ti lages B 1 J 5 E 10 7

os s of ca tilage 1 In Tagges on 10 the d tury can usu lly be m d from the history Mo 1 o has st ted that hen a fracture of the cartilage is of the bucket handle valety the patt nt se t u usly d sabled by pain effusion locking or a se se of in security in the joi t Fagg h e er has been unabl t c ntrin this ob to si ce prac tically all of his pat ents w th a bucket han fle f c ture of the tern I sem lu r compla ned of ccu re t d sab lity ith inter I of complete f eed m from symptoms An e pl n tion for the inte mit tency of the symptoms in such cases is suggeste I by the fact that the torn strip often found nits nat u af position i stead of in the intercondular notch

Localized tendernes below and med al to the patella is a si nificant finding. The author believes that those s ho de cr be palpable cartilage at the p int have been palp to g swollen syno l Ir e hich rofl u der the palpat g t ge

alue n the dag os as t may Lockin is f n

he caused by I ose b d s of a y typ

In discussing the mich ism of the injury Walton claimed that the cartdag is f actured in Iuli exte s on being caught b to en the two b e cted to a e y po e ful c ushing forc Martin laid st ess on an inward to ist a the h ef facto callin attent o to the close con ect n bet een the

ternal semilunar cartifage and the capsufe and inter nal lateral hgament. He stated that if the cartilage is caught between the i ternal condise and the inner tubero its and dragged to ard the center of the joint a split or tear results

The author believes that flexion and abduction are necessa y f r ca tila e inju y but that the joint must be gradually extending when the fracture occu s According to some o thoredists rotat on is mpo ta t in the causation of these injuries but

in Fag e s onin on thi is of a necessary factor Morison has observed that the cartilage is always

torn but no er entirely detached f om the cansule Following the application of a tourn quet a free gener u exposure of the knee joint should be made in o der that no l sion all be ove looked. In Fagge's technique a cu ed incision i m de parallel vith and in outs de of the i ner border of the artic lar surface of the inte nal condyle. The internal lateral I game to ca fully pleser ed E cept a very cases I g e has not found it necessary to re n ove the e tire ca tilage Preservation of the poste rio att chment loes not cause locking. Fa se does n t remove the synovial fr gc Before rele s g the t urniq et he appl es a mpres ion bandage

In the afte t tment aspi in and morphi e a e and cated to the relief of pain and the knee slightly bent sho ld be support d n pillo s Passi em ve ments 1 ec tra ind cate ! lagge s pat e ts are up and t Ik gafte from seven to ten days Vinssage of the quad seen s then begun

M D DA LII LE INTI

C bb n W R and Conley A H Inj est th M niscland the Lig mentum Mu um Com m nly Called Int nal D rang ments f the kn e Joint 5 f  $G_3$   $\sigma Ob t = 9.7$  l

The medial me scus may be injured by a fall on the kn e by 1 rect trauma In the m 1 10 t th e genter exposure of the med I me iscus b t een the patellar t nd n and the inte nal lateral ligame t th n of the lateral meniscus When gent algum is pee t the medial meniscus is still more e po ed d nr bably mor subject to mjury

I om the p tholo ical standpoint c ses of 1 Jury to the men cim y be di ided into thre gr ups

h ch the anterior po tio of the Th cl ments us 1 to 1

2 Tho in h b the l te af portion i detache Thos with d locatio of nti e medial porti n The stan la d op ration is described

\ Fu MD Ro

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

A due F C and Nu o F C mp at le Res lts of Op rat e and Non Op rati Methods of tm nt of Tub ulo I of th Spin In Clild en J B

Unde conditions as nearly deal as pos ble I u teen ch I lren u der ten yeas of ag v th tube cu losis of the dorsal or lumbar vertebræ were chosen for a prolonged comparative test of the operative and non operative methods of treatment. So far as possible they were divided into pairs according to their age the stage of the disease and their general physical condition From each pair one child was selected for operation and one for prolonged frame treatment. In the surgically treated cases the Hibbs type of fusion was done In both groups of cases the same physical and \ray examinations were made and the same after treatment was given From time to time the children who were clinically free from symptoms whether operated upon or not were allowed to get up wearing a back brace in order to test the solidity of the healing Such tests always led to a recurrence of symptoms in a shorter or longer period unless the roentgenogram showed a continuous firm bony bridge uniting the diseased vertebre and disappearance of all signs of rarefaction between them

Thirteen of the children are well and physically active Eleven have small unimportant hyphoses. The only abscess that developed was present when

the child was first seen

One child who was operated upon has a marked kyphos and is not cured because the fusion did not include a sufficient number of vertebre and because the child was taken home against advice and all treatment was stopped

Another child who was treated surgically has a moderate kyphos due to failure of complete fusion of the lamine which necessitated a second operation. Il of the children except these two have flexible

All of the children except these two have flexible useful spines but the authors believe that the flexibility is greater in those who were not operated upon The following conclusions are drawn

- The cure of tuberculosis of the spine depends principally on long continued rest without weight bearing
- 2 Cases in which fusion operations have been done require practically as long and careful after treatment as those without operation
- 3 When cured patients not operated upon have more flexible spines than those treated surgically
- 4 The possible shortening of convalescence does not justify the risk incident to operation
- The authors cases will be kept under observation and a final report regarding them will be made later DANIEL H. LEVINTHAL M.D.

#### FRACTURES AND DISLOCATIONS

Eskelund V Fracture of the Lower End of the Radius (Colles Fracture) and Its Treatment Act cl: rg Scand 1927 km 41

In the 5 year period from 1021 to 102, 34 cases of fracture of the lower end of the radius were treuted at the Policinic of the kommune Hospital of Copenhagen Two hundred and twenty three of the patients were women. In the men the right arm was injured more frequently than the left whereas in the women the reverse was true. Frac

ture of the styloid process was found in 46 per cent and fracture lines extended to the articular surface in 12 per cent of the cases

The treatment consisted in reduction—usually without an rishesia—and the application of a plas ter of Pans splint to the pronated markedly fleved limb in ulmar abduction. After from 6 to 8 days of immobilization the splint was removed and massage was hegun. Subsequent examinations in of cases (about 60 per cent of the total number) showed the results to be as follows.

	Exc 11 t	Gd	F	P
		C.	C	0
Functional	60	33	6	1
Anatomical	55	36	9	•

These results appear to be better than the e reported in the literature available to the author but the period of treatment was somewhat long as it averaged between 6 and 8 weeks and in 17 cases was more than 14 week.

Jackson R II Simple Uncomplicated Rotary
Dislocation of the Atlas Si g Gynec & Obst
1927 dv 156

Jackson reviews twenty even cases of simple rotary dislocation of the atlas recorded in the literature and reports four cases of his own. The dislocation is produced by rapid and uncontrolled rotation of the head Ordinarily the odontod process is not fractured or displaced but its condition must be ascertained before manipulative reduction is at tempted. This determination is not always easy even with careful roentzenological study.

Following a description of the symptoms accompanying the dislocation the author states that if the lesion is not recognized and reduced it may result in sudden death from an increase in the dislocation or the development of medits months or years after the injury. When reduction cannot be accomplished by the closed method the advisability of open reduction must be considered.

In conclusion Jackson describes an operation devised and performed by Mixter and Osgood in 1906 and an operation performed by J A Jackson in 1918 Robert V Purston M D

Jefferson G On Fractures of the First Cervical Vertebra Brit II J 1927 n 153

The author reports three cases of fracture of the posterior arch of the atlas in one of which the odon toud process was broken in addition. He reviews also sixty two cases reported in the literature and in a table gives the nature of the accident the clinical signs of cord or nerve injury the anatomical diagnosis and the results.

The chief symptoms of fracture of the first cer vical vertebra are pain and rigidity of the neck

With regard to the mechanism of the fracture the author reminds us that the lateral masses of the aliaare triangular with their wide base outward and that the upper and lower articular facets correspond The efore when force is applied directly downward from the top of the head a tension fracture may occur and the atlas ing gi es way

The treatment of facture of the first cervical ertebra is immobilization in plaster of Par's

Robe TV Tunston M D
Calt n R Roentgenog ms of Fractures fitte

Falt n R Roentgenog ms of Fractures fitte Femur (l g berd R tg f hm F m f kt ) A f ch g S d g l

In the study, of roentgenograms of fractuses of the tenur especially those occurring nth m ddle thind to softe officult and sometimes quite imposible to determine the position of the fragments hen and tomical detail all importation are a vant given the form of the fragments it is not always possible to decide the caints visite is the proximal and visit his the distinction of the decidence of the caints of the desired properties.

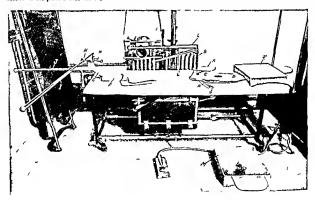
After discu sing s er l methods of eliminati g uncertunty by ma k ng the plates the author sug gests the use of a thin metal disk measuring 4 by a cm and ha ng perforated letters the disk t be

fastened by mean of adhe 1 et pe to the left lov er corner of the plate b fore the exposu e s made. He marks the disk, for the right thigh with the abhre vated Latin inscription of vd st lat or of v prox dors depending upon whether the roentgenogram is to be taken in the antertoposterior or the latero medial plane. For the left thigh the corresponding in inscriptions are sin disk med and sin dist dors. Two metal disks are therefore necessary for roentgenograms of each left.

The rontigenograms are put up for examination in such a way that he plate exposed in the anter-post ion and the plate taken in the lateropes too and the plate taken in the laterometial plane shows the fenur in the hor ontal position the positions in which the cli teain is accustomed to examin in fractures of the femury hen the pat ent is lying on his back.

McCutchen L G A New D ce for the Red ction of F actures Use Advantages and Re Its R d I g 9 7 3 8

The author p esents a device for the reduct on of fractures under fluoroscopic control which seems vorthy of a trial. He states that it is e trently simple in its operation and the amount of extension obtained by its equivalent to the pull of more than six men. It is made of easted aluminum is he his



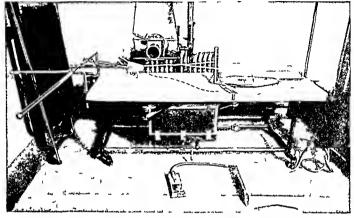


Fig 2 Device with cuff attached to ankle peg in crotch

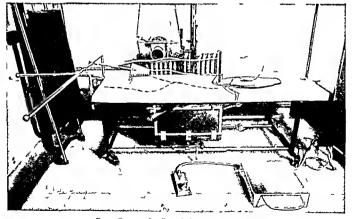


Fig 3 Device with cuff attached to wrist peg in axilla

iers us to the \text{Y} r \text{ light a listrong and will not trust r app lit attached to the \text{X} ray operating point talle by mean fithree socket —one at the heal and it \text{V} at the \text{Lift point} at \text{Lift} by mean fithree socket —one at the heal and it \text{V} at the \text{Lift} if \text{Lift} by \t

To d termine the quitty of all nice and the miximal tesil stepth feetan material uelforethin in the author end out 10 e perime to the tokind of adhe e plaster and with

bands co ered with mastisol Sinclair's glue and zinc glue letermining the veights neces ary to de tach them from the skin

He found that Sinclair's glue and zinc glue adhered most quickly and vith equal rapid ty. After for triminates their resistance to detachme the man doo strint. The corresponding time for mastiol strips vas four hours and that for ordinary adher it ends is ster sevents minutes.

In the experiments with regard to strength masts of steps ere found to be the strongest. Ord ary alhess e pluster and Sinchiar's glue, ith tood prict. Illy the same load.

After the shaving of an area c vered by cons 1 table hur the tenule strength of ord nary ad his epistes was increased from to and to that it to ande his tenths times and that of the mistion strip from to and five tenths to three time. Therefore areas with much hair also lides high deferred to the strip from the position of adhesive plaste of strips or circle that strip from the first plant to the first plant for the first

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Carnett J B and Greenbaum S S Blood Vessel Visualization J in 11 1ss 19 7 IVVIV

The authors discuss the experimental and clinical aspects of blood vessel visualization as an aid in the diagnosis of vascular disturbances such as embolism aneurism gangrene and thrombo anguits obliterans

Various opaque media were tried such as sodium odide potassium bismuth tartrate dominal \(^1\) and iodized oil. Steard and Forestier injected \(^1\) cem of iodized oil per kilogrum into the femoral vein or artery of dogs without eausing an untoward reaction According to the roentgen picture all of the oil disappeared in five minutes. In the examination of two patients with diabetic graggene Desplats was in able definitely to locate the arterial obliteration.

The authors found that 6 e em of sodized oil can be injected into the femoral artery without causing unfavorable results. In the technique used by them the artery is expo ed under local anasthesia and the leg elevated. The arterial pulsations are stopped while the intra arterial injection is made and until the first series of roentgenograms are taken. Roent genograms are made immediately after the injection.

Often very little iodized oil is seen in the trunks of the deep and superficial femoral arteries even when no obstruction is present. The terminal vessels in the foot are seen best in roentgenograms taken five minutes after the injection. Compression of the in jected limb forces the oil out of the vessel

In conclusion the authors state that the procedure described is a harmless method of exploring the blood vessels

C O Heimoal M D

Bernheim B M and Sachs L Notes on the Collateral Circulation in Blood Vessel Diseases of the Lower Extremities in t Si g 1927 ixxvi 4 7

It has long been known that the femoral artery may be ligated above the profunda without death of the extremity. The collateral circulation probably occurs by way of the cluteal arteries.

ably occurs by way of the gluteal arteries. The authors point out that the vessels of the set atto nerve in the normal limb are small and not easy to demonstrate while any disease condition which produces obstruction of the main vessels is associated with enlargement and hypertrophy of the solution vessels out of all proportion to the size of the nerve.

The article reports seven cases in which amputation was done below the mid section of the thigh for gangrene due to different types of constitutional disease. In every instance microscopic sections of the sciatic nerve trunks demonstrated an enormous

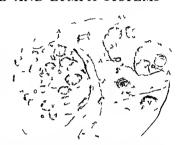


Fig 1 Compensatory enla gement of the arteries ac comp nying the suationer ein a case of arteriosclerosis complicated by diabetes mell tus



Fig 2 Compensatory enla gement of the arte ies ac companyin the sciatic nerve in a case of thrombo angutis obliterans

dilation of the sciatic vessels. Attention is called to the fact that these vessels were not obstructed by the disease affecting the main vessels

WILLIAM I PICKETT M D

Warthen II J Jr The Fate of Foreign Bodies in the Venous Circulation 1 cl Surg 1927 xv 712

In the literature there are to be found the reports of cases in which projectiles lodging in the veins have migrated to the heart There is no mention how ever of the migration of such objects to the lungs

The author inseited sterile and unsterilized metallic bodies into the femoral and jugular vens of fourteen dogs usually usert ig seve al objects in each animal Of ninety four foreign bodies inserted tventy two cre bullets forty three ere shot and twenty nine were nails from 18 to 3 mm long Sixteen of these fore gn bodies failed to leave the femoral vein and cleven ere fo nd in the iliac vein and ven cava during un clated intr thoracic one a tions on ty a does dy no so in after the insertion of the foreign bodi s. Of 1xtv se en objects, which reached the heart three (bullet ) remai ed in the right vent cle a d si (nail ) I dgcd in the pul mony vartery the latte being apparently too long to negotiate the curve of the arte v. The my ration to the heart and lungs ppe ed to require e e al hours or days In the lungs the bod es we en ally clumped in t oo three bran hes f the pulm pary artery and the major ty I d ed in the lower lobes of the left lung

In no case did immediate symptoms occur. The mic o copic change in the lungsranged fir m mode ate congestion to gav h patiz ton. I apprea ci to represent late stap, of i farction. The lung sho edgo sich a ges in nil to case s. In one a local ed pleun; ya a vosci ted y th the prese ce of sterule bull ts. In the other a fatal lung becentle of the local content in the present of the content of the local content in the local cont

na is did not lodge in the lhe carta and a bull t lodging a the brach lartery cau la feal bece to full a decessor the tall cit of the brach lartery cau la feal bece to full a decess to the tall cit culation. In the third fat it call the brach lartery bullets are found at the proof the right entirely to cause of deeth except the ken ng of the end call dum and local z dim veratiss call be decessed.

In all the eftal casunsteril frugation of reason and it is all the eftal casunsteril frugation of reason and it is eftal case in the efore apposition of the interest and symmetrical rarly cause infect and that unsteller irregiate both are the most dangerou. It appears also that light symmetrical by bects shas bullets tend to rime in the heart. As they tend to lodge at the appear of the intrince hints a cessible to sheet, their mount preafeable Since objects lodged in the lungs usually cause introuble operation for their remove la seldom in deated.

Neugebauer F Gang ene of the Ext mitte (D G g d E t m t t ) B t kl Cl g 7 d 67 g

When immediate ligation is done because of life threatening hemorrhage in open trainmate anju sea of the blood seels the nutrition of the limb as it is ously threatened as there is not me for the de clop ment of a collateral ci culation. Reports thregard to the f equency of gangrene follo mg involvement of the common iliac artle y show some variation because the condition may be complicated by infil tration of blood into the tissues infection arteno sclerosi or cardiac weakness. In very rare cases a break in the continuity of a large venous trunk alone (the femoral ven) may cause gangrene

In open injuries of the forearm and leg the attened and the veries should be ligated Lugition of them class in avillary brachial and cubital atteness as he subout druger. In the case of the common and external lines the femoral and the popultical attens on the other hand suture should be attempted. In the determ nation of the collateral or culation, the sign of Heinel and Coc on so of value. If suture is impossible on account of infection the principal veniums at all to be ligated.

In open injuries without damage to the artery itself the clinical picture of a break in the continuity of the blood vessel may be produced by fraumatic segmental uscular prism so far it has been impossible to diragnose this condition post viely before operation Segmental vascular spa m rarely results in gang e.

Occasionally sli ht trauma such as that produced by a hypodermic needle may be followed by gangrene

of an extremity Gangrene from subcutaneous mury athout de m astrable damage to the blood vessels is rare. This includes gangrene produced by surgical bandages. No e common is obstruction if the blood vessels by tearing of the inner vascular membrane by dull injuries and gunshot ounds near arteries. In such cases the vascular murmur often nd cates the site of the 1 jury In fractures gangrene 1 threatened by or ssure on the blood essels or laceration of the inner scular memb ane or of the entire vas ular Because of the marked infiltration of blood into the tissues such vascular injuries have a par ticularly unfa o able prog osi as they lead to gan grene in from 5 to 90 per cent of the cases according to the site of the inju ; Dull 1 juries may also cause segme tal or gene al vascular si asms

en le pre enile or spo taneous gangrene and d abetic gangrene have a common cause namely arte The latte condition occurs not only in old age but al o n childhood Occlusion of the blood ve sels leads to prol fer tion of the vascular walls and secondary thrombus formation The author re ue s the symptom The use of rodine the induc tion flocal hyperæm a and operati e section of the nerve supply of the blood v ss I may often pre ent the development of g ngrene The favorable effect clam d fo the remo al of one ad enal is doubtful Th Wietin anastomos si of no avail but simple lig t on of the veins s sa d to have a favorable effect in these as n othe f rms of gangrene Peria terial symp theet my is to be rejected as a effect to and not thout d'nger Wh n dry gangrene has alread; devel ped the level at wh ch amputation should be performed is best determined by the Moskowicz test The amputation should be as simple as pos ible Mo st gangrene w th ascending infection necess tates a h gh amputation When amputation is impossible hot air t catment is advisable

Gangrene due to freezing is caused by a primary injury of the blood vessels Cold causes changes in the blood vessel walls in addition to stass. The beginning of gangrene due to cold unlike that of most other forms is painless. General weakness or illness and local changes favor the development of gangrene. In the treatment, the himb should be warmed slowly quick warming may cause very severe injury. Elevation of the himb massinge and incision are indicated to overcome stass. When gangrene has already developed the attempt must be made to keep it dry. Moist dressings are contra indicated.

Embolic gan rene is very severe because it occurs usually in persons with poor heart function Paradoxical embolism is very rare The time at which gangrene develops depends upon whether complete occlusion was caused by the embolus immediately or resulted only after secondary thrombo sis. The diagnosis is usually not difficult. The treat ment tends more and more toward embolectomy This may still be successful after from ten to thirteen Emboli up to 86 cm in length have been removed. In three cases incision of the north was successful Recurrences are common A cure results in from 36 to 44 per cent of the cases Lmbolic occlusion of the blood vessels is caused more rarely by injuries of the chest and thoracic operations

Gangrene of the extremities has been observed in nearly all infectious diseases. Gas gangrene is nearly always dependent upon vascular injury. The gan grene following general infection is peculiar in that it generally develops first after the most severe stage of the disease has passed. Its most common causes are thrombosis from tour arterities endocarditie embolism of the main vessels or the vasa vasorum and venous thrombosis. The prognosis is poor as the mortality is 576 per cent. Gangrene resulting from syphilis is rare occisionally it has the clinical picture of Raynaud 8 gangrene.

Of the various poisons that may cause gangrene the most important is carbolic acid but gangrene due to carbolic acid is now seldom seen. It results from marked transudation in the subcutaneous tissues Lysol acis in the same way but causes pain early and is therefore less disastrous. Cangrene from carbon monoxide or lead poisoning is the result of an arteritis. The severe ascending necroses resulting from injuries produced by an electric current are also due to histologically demonstrable changes in the arterial wall

The suspicion of a neuropathic gangrene (Ray naud's gangrene) demands the exclusion of all other forms. Of diagnostic importance are its periodicity changes in the eye grounds and the findings of capillary microscopy. The most important agent in the treatment is heat.

#### LYMPH VESSELS AND GLANDS

Bernard R The Surgleal Treatment of Cancer of the Cervical Glands (Traitement chirurgical des adenopathies cancéreuses du cou) J de cl r 1927

As all of the cervical glands are enclosed in a sheath of cellular tissue they can be removed en iloc by finding the anatomical planes of cleavage which he in the spaces that separate the muscles from the perimysium and the vessels and nerves from their adventitia. In cases of cancer removal of the glands should be very extensive even when they are appar ently normal Recurrence of cancer of the mouth and pharynx is generally not a true recurrence but the development of a latent adenopathy. In a submaxillary excision the submental space should be cleaned out and the carotid chain dissected in the space extending from the posterior digastric to the middle tendon of the omohyoid Removal of the carotid chain should extend to the clavicle sacrifice the sternocleidomastoid and terminate at the trapezius

General anasthesia is very unfavorable in operations on the head and neck. The best method is the administration of ether by rectum or of chloroform by Delbet's pipe. The best incision is Morestins large stellate incision. The two types of operation are submavillary excision and complete cervical excision. The steps in both of these procedures are shown in illustrations.

The steps of the submavillary operation are liberation of the maxilla cellulectomy beginning along the lower border of the maxilla liberation of the parotid exposure of the posterior belly of the digastric alsection of the anterior digastric and the submental region dissection of the mylohyoid ligation of Wharton's duet rund the facial artery dissection of the omohyoid liberation of the sternoeleido mastoid and spinalis dissection of the internal jugular ligation of the hyoglossus and ligation of the external carotid. The dissection of the hyoglossus frees the last attachments of the cellular mass which contains the glands

In total excision of the cervical glands the sterno cleidomastiod must be sacrificed whether the glands are adherent or not. The sacrifice of this muscle does not involve any loss of function. The dissection is carried back to beneath the interior border of the trapezus and terminated at the hyglossus as in the preceding operation. Even this extensive procedure requires only about three quarters of an hour if it is not compleated by adhesions. Generally it is well borne by the patient in spite of its severity, and the wound health by first intention.

AUDREY G MORGAN M D

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Soont A R D ad (P eserved) Fasci Grafts

Nageotte ha mad some intere ting obser a tin cont tig th chang that the place after the implantation of begand le Ital grafts In the case of his grafts he not dithe fill ing phen mena () the att chm t ftl ts ue to that of the hot t the ingrowth f fibr 11 t (2) the leel pm t of a e vacular n t ork (t) the chabilitat of the cell I lead t don graft th firt two phe omena er th m but n the third stag the I ad cell carn 1 aı and eplaced by hig cells f m the h t final re It ere ide tical

Koonte con jude I bt sance I I tend n graft could be used gr fts of d da can re allo a posiblty and might b f value the repar of large vent il and i unal he an high the frequency difficult to fad nough face for the repart urrouding the defect I sevente c c i I man be utued with alcohol prevel trip of fr is

lata f the o

The e per mental a J clinic I re ults btaned the grafts of de diasen ugge tithat thi material man b u elin tonly i the repai of heri but al n uch pricedu s peration festre giben ng the capsules felae d) t perat s for recur t dislocat nof the ptella the b lg ng of tend n defect a lithe operative cue of aneum

It appears that hordmary ab orbable suture material use 1 th occurs to the absorpt a pr sofsu tutur n hehl ave a pe moent high production to sen place i the nho bed uture When alcoh I pre erel t p of fasca I ta are employed as uture nate ai this end esult is a certainty n if sobtas d more quelly becaue the eisn bosoption. We sen I h. in M. D.

#### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Leon d V and Feler W A Hesylre inol as a

G n ral Antisept c S g Gy & Ob t 927

Ag ne al inseptic fo d in to of ti e r fac should be chemically stable in a touc nom irritating ap dly bacte cicidal highly penetrating and u all cicid by granic matte. Other prope tie h cha ery desi able though not e c tail are fre dom from staming action and from an object tooyable odor.

As a rule ncreased germicidal po er s a so ciated with inc ea ed to city and irr tating p ope ties The alls, I resortanols he ever are unity exceptions to this rule as the great increase; ig middle or associated with each increase in the number of carbon atoms in the als's chains accompanied by no increase shalever in to city to laborato a naimals and the iritiant properties of the successive compounds are decreased.

Hevel s remed the most po erful membe of the see es according to the United States Hype to Laboratory method f me suring germ celal values h s a phenol c effete to f 7 \[ \lambda\] orcer it is a table chem call c impound since aqueou ol 100

Il ret the r backer cidal activity after months fat diag at room temperature. That it is on to ic is lent from the fact that it can be admanstered t man; I ago doses (6 mm three of furmes daily) for year or more without cas sings u to a deflect. It is absolutely devoid of irritant prop ties.

I estignt a has a vealed all o that he ylesor of it an extemely por rful surface tension me due at and the tiss rate f diffusion unus slikingh. It has ther fore marked penctratur g por and it ill etend into minute e a cress ad it et sices. GI cerine added in prip r mo intsinsures a priect's pure und raile endits.

The soluting finally chosen by the author as best meeting equirements consists of gluone so pecell and later oper cent in high disoled

mgm of eritil ne he viesore nol per cube milimete

The bete edal action of this solution is eriapid liven na dilution for it hesolution retains uitcent it ctentical piver to destroy the bast list phenous nessen in fitnessecond. It may there for ebe dilutted to a coditable degree for purper it rrigation. The presence of organe matter doc

not note fere ith it bacterned I popertie
The solut in s sauly empt ved in bit if the
i the skin in fesh cuts and abras ons on gran lai
i surfaces in abscess or, te and s use a d in
the car nose thro t and mouth I the u third
bladde and renal pcl i t sed thon or two
prt of ater Dil ted thit ovol mes f ater
timay ben it liled into the normal cinju cut alsac,

may be in tilled into the normal c niu cti al sac The sol t on is as clear as vater and odo les It

does not att ck anv of the heavy metals
Willia E Shack o MD

Khir A The Teatm nt f Ac to Prient Inflammations with the Roentgen Rays (D B h dl gd l t t n E tou d h d R tg t h l) D t h Zt h f Ch 9 539

In inflammations I the sweat gland of the axilla e pectally in panaritia and fymphang ts but alo in phlegmons carbuncles erysipelis puerperal mas titus and small inflammations of the soft parts reentgen ray irradiation has been found in 80 per cent of the cases to give much better results in a sur prisingly short time thin any other treatment. The dosage used by the author usually ranged from 4 to

s per cent of the skin crythema dose and never'exceded 25 per cent of the latter amount. In the majority of cases a normal dose of from 75 to 80 R was given. When it was especially desirable to avoid a stormy reaction a do e of 4 per cent was given at first and increased to the normal dose after a few days. Irradiation was always done with bard infiltration (0.8 mm of copper plus 2 mm of alumnium) and a skin target distance of from 35, to 50 cm.

In inflammations of the sweat glands of the availathree or four tradiations of the same strength were given. For provocators purposes in the differential diagnosis of inflammations of the glands of the next the joints and the bones irradiations were carried out according to the procedure of Freund. 200 R.

being applied to the area

The therapeutic irradiation should be given in the beginning of the stage of evudation It does not alter the nature of the inflammatory or breaking down process but lastens the subsidence of the inflamma tion At the proper time the softened areas must be opened with the knife. In the exudative stage of the inflammation the pain malaise and fever soon cease after the irradiation. In the stage of abscess forma tion there is usually at first an increase in the swell ing and pain which necessitate early incision. In eases of rapidly swelling phlegmons the mulaisc cease after a few hours and very often the fever also subsides The pulse however may remain rapid and when this is the case the local condition is unchanged and opening of the abscess is necessary Unlike the pus in the cases of Heidenham and I ried that in the author's cases wa usually not sterile

I or stiff walled cavities with a purulent evidente and for emprema of the large joints irradiation is of no avail. In inflammatory conditions of the bones joints and tendon sheaths it is not advisable.

The increase in the severity of the signs of the in flummation immediately after irradiation is attributed by the author to an increase in the hydrogen

ion concentration. This increase is followed by a decrease over a period of days the results of which are indicated by a diminution in the amount of the evidate the infiltration of leucocytes and cessation of the pain. In Kohler's opinion the marked destruction of leucocytes caused by the irradiation frees non specific antibodies (proteoly tic ferments) which instead of entering the blood stream build a serological will around the inflamed area.

HINTER (Z)

#### ANÆSTHESIA

Lepoutre C 1 ermanent Nerve Disturbances Resulting from Spinal Arresthesia (Des acci lents ne cux léfnitus de la ralianesthésie) Bull et lé So t d du 1027 lin 456

A patient consulted the author on account of in continence of urine and musthesia of the perineal region following an operation for right inguinal herina under spinal anesthesia. In Lepoutre's opinion spinal anesthesia may sometimes result in permanent nervous disturbances. Before the anæs thesia can be blamed however syphilis tuberculosis and nervous diseases must be ruled out

In some cases there may be paralysis of the lower limbs with incontinence of the sphinicters or disturbances limited to one nerve center or root. In others, the phenomena may be due to extradural harmorrhage which compresses nerve centers. Such disturbances are rare and the result of the puncture rather than the anesthesia. Yet a rule the complications are attributed to an irritiant action of the anesthetic and vary with its nature and concentration. Sometimes the lesions are so strictly localized as to suggest injury of a nerve center or bundle of fibers by direct puncture destruction by a harmatom or dissociation by the intravenous in jection of the anesthetic. In the author's opinion this was the purhogeness in the case reported.

In spite of the possibility of such complications spinal annesthesia is indicated when it will improve the prognosis of the operation. As a precaution the injection should not be made until the spinal fluid is flowing normally showing that the needle has been correctly inserted. Audrer of Morgan MD.

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

P te G The Impot nee flas ular P meab f ty n th The peutic U of Rongen Rays nd Rad um 1 Mal gnant D sease 1 J P lg 1 10 33

A clinical b ervation and the re ults of recint e pe me tal re earch hav sugge ted to the author an v theo tral e plrato of the healing of tumo foll 1 g irr ditt 1 The cl ical le ion wa an pith 1 m f the lerotic port n of the h has de c bed n detail. The lel oniu cti to the led ct on that the vas ular vst m plav a ole of first mp tance in the phen mena of heal ing and that the curative effect f irradiation is t o ght ab ut he a change in the p meablity of the ve I alls It seemed pob ble that he ling produ d directly by a tra sf rmation of net folism e ther by the time all preduction of immun in ultian by the centigen rays or by ımmun ın ul tan atu al mmun to hich tec me activated follo vin e dp me blty of the blood vessel

The hyp theses a compared the typ ment I facts estath hely a 1 u into tigator with reg dt the phe me a of imnun ty in yibil the held g fit nephlla was cose peepsed. It too e reist gt the stall taning f( am a dithe in p tant tuide of Warburg in metabolism. The auth retempts to p e that the findings of these dill ent be ver all tent to conhim ho condition to the theoretical tent of the the

A ar ult of hs tud P ter believes tl t tl mm diat tak f the peutic tech que hould be () th gy g fa to e frentg nr v ndr dum co du e to a h perær na an! n nere e f the va ula p me bilts a lating sp ibl sthout producn ales n f the I all vh h m ght enir them 1 puble f act ng t subsequent ral t n f thes hulile nece are and ( ) the 1st mate c mb at on f rad tion 1th the adm 1 t at n f ubst nce cap bl of ctiv tin oug ato nth t su nhb ting ferment tio a d te ding to neut al e the cdty H gie thyrod t ct n and labes to the po t f alkal niz t n of the ur e

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tumo do not p ssess blood ve el vhen a new fo mation of capilla es with n the tis u smade impo ble by natural o pathol go el con tio s and hen previou r adiat ons have p oduced an i reparable impermeabil to of the vess is

Pfall G E and W dmann B P The V leof
Ltt nous lnject ns of De t se D ng
R dati n Tr tment f M lgn nt D eas

1 4 lf f 2 15 40

The auth s were led t make in tigations ith the int venou inject on of dext se i co i netio with adat in the time tof malia antidse e by a commu icat o from Hol knecht and Mayer in which t as stated that tumor t sue seemed to be rend ed m c e ti e to radiation hen the latt r vas c mbined ith int enous niectios of a hyperto c lut on of dext os that the class ! impro eme t as e pec lly trik g c e io d to be fact a to ad tion alo e and that the d to e solut a seemed to decre e the intentity of the socilled contitutional effect of radato The teatment as ba donge eral b lowcal and cl all beer tion of v lous in e tig to which demonstrated a clo e elationship fit mor t car fohyd ate

The meth d v tel by the auth rs 1 te The c The t builsted the characte and lo tun f th le on. Both h in d low voltage tech ique as u d by the ut atton meth d f. Pfahle a d in uitable c se adium a pipled in the maj ut; f the c es fr shly prejr d 35 per cent de t; olut on was njected i que ties f oc m befor the reentgen ray or r d um teatin t but 1 ne g oup of c se the niget o c m de un or the adiatin tratmet t and i

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t uedr diaton teatm at

# MISCELLANEOUS

## CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Campbell M F The Ethology of Granuloma In gulnate with a Report of Eighteen Cases Am

J W Sc 9 7 clyny 670

Granuloma inguinale has been definitely established as a chinical entity. It is a disease to which negroes seem to be predisposed whites are rarely attacked by it. It is most common in the subtropics but the authors have seen it in persons who have never been outsade of New York.

It begins as a small most papule located usualls in the genital or pengenital regions. This papule undergoes progressive ulceration. The condition seems to be transmitted by dothing and friction list in no ense a venereal disease. There is a no

table absence of pain and adenopaths
Granuloma inguinale must be differentiated from

chancre chancroid gumma tuberculosis and malig

It was first described by Convers and Daniels in 180, Its etiology is uncertain Convers and Daniels in 180, Its etiology is uncertain Convers and Daniels thought it to be tuberculous and others have class field it as luette. In 190, Donovan described peculiar ovoid inclusions within the large mononuclear cells present to which his name has been given Donovan believed that these bodies were of protozoon origin and the etiolo ical factors of the disease. From direct transplantation of infected tissue to a healthy individual and the i olation of Donovan bodies from the new lesion. Viclintosh arrived at the same conclusion. While these bodies may have been the cause the transplantation of a tissue cir masse precludes any conclusions as to their specificity other organisms as yet not isolated may have been transplanted at the same time.

The Donovan bodies are soluted by Sabouraud's medium (4 per cent maltose peptone agar) When once isolated they grow well on the more common laboratory media. They range in size from it to 5 miera. The smallest have the appearance of coccu The largest are ovoid or obloing. Pleomorphism is characteristic. They do not form spores and are

not motile

In order to determine the specificity of the organ ism the author made direct inoculations of twenty four hour cultures into guinea pigs rabbits mon kevs and human beings. In no instance did these inoculations produce a lesion characteristic of granu loma inguinale but in all cases there were formed superficial 'ubscesses from which Donovan bodies were isolated as early as the first week.

Fartar emetic (potassium antimony tartrate) given intravenously in a r per cent solution is a specific remedy. As a rule the treatment is begun

with 2 c cm of the r per cent solution and the dose is increased by 1 c cm every other day. Rarely bas it been necessary to give more than 10 c cm at one time. The improvement in the lesion is as striking as that observed in superficial luetic manifestations under treatment with arsphenamine. The injections should be continued for some time after the apparent cure of the disease as relapses have been known to occur when they were discontinued immediately after the disappearance of the lesions. MAPSIMLE DIMSON M.D.

Coley W B The Prognosis and Treatment of Giant Cell Sarcoma A 11 Surg 19 7 Ivvvi

This article is based on a careful follow up of fifty cases of giant cell sarcoma of the long bones reported in November 1023 and nineteen additional

cases observed since then

Coles states that while the majority of gaint cell sarcomata are beingn or only locally malignant there are a certain number which give rise to me tastases and generalization of the disease. In the early stages of the condition it is quite impossible to differentiate the malignant from the beingn. In the long bones in which a diagnosis was made by competent pathologists there were ten deaths from metastases. Collected records of the New York Presby ternan and Bellev ue Hospituls show the symmetric diagnosis of the New York and the state of the symmetric diagnosis of the symmetric diagnosis of the symmetric diagnosis. The malignant nature of some of these cases has been reported also by numerous observers.

The usual method of treating gnant cell sarcoma is curettage followed by the u e of carbolic or zinc chloride. Hamorrhage is a serious complication. The treatment of the civity is unsettled. Some surgeons follow Bloodgood's method of packing the cavity while others try to close the wound completely. Coley packs whenever necessary and keeps.

the wound clean with Dakin's solution

In addition to curettage and the application of carbolic or zinc chloride to the cavity, the injection of mixed toxins of ery spelas and bacillus prodigiosus for a period of three or four months greetly lessens the chances of recurrence of the disease by destroying whatever cells have been left behind. When the toxin is used for prophylixis only small doses are given just enough to cause a mild rection.

There 1 an increased tendency on the part of surgeons to turn all cases of bone sarcoma especially guant cell sarcoma over to the radiologit but the number of cases treated by radiation is still too small and the period of observation is still too short to permit the conclusion that radiation is the method of choice Disadvantages of radiation as the pri

mary method of t catment are the poss bility of error in the diagnosis and the long duration of the treatment. The esult obtained by a combination of curettage a d r diation a e dist netly inferior to tho e obtained by a combination of urgers and II LI ME SHAC LT to ns

#### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

II den R L Th Etiology of Focal Inf ton Medical Asp cts 1 / Ot | RI | La y | I 8 16 Q 7

The first require in the nanageme t of foc 1 i fection i a ge eral exam ati n of the jati nt The amptoms often aser bed t focal infectio may be d e to e t elv diffe ent causes

In the at major t of c es the f ciare fou di

the teeth to ils o use

I let rmin g the di po iti of foc factor influenc g the pat ent r si tance must be valu ted and the stuct I d man I eady do e mu t be considered. Often the vitemic it e e i le pen l'nt up n'ontinu u l'mage o er long perio l f time Erad cati of the f 1 may a all httl

When the rem aloff co nd cate i Il po s ble fc h ld be emo ed

The expresent landclascal tul off al af c tin emphie the importate lat off c to systemic de ease and the need for early recognit on and remo al of foci before systemic di ase has resulted JOIN J M LO EY M D

Berglaus n O Torula Infection n Ma 4 11 Wd 97 15

To the t enty four cases of inf ctio by the yeast o gan sm torula hi tolytica which are eported ; the lite ature the author add a cae vith in of e ment of the tongue. In the latter a state of hyper ensiti eness was in I cated by a market skin re follows g the subcutaneous s jection of a b ife l aqueou e tract of a culture of the orean m Complete ons in the form of a mottled infiltration f the parenchyma of the lungs and e larg ment of the pleen de cloped

Labo atory test and the h tory ere negati e fo t be culo 1 and the intravenous inject on of cosaf rsan was follo ed by only temp rary trop ve m t The applicatio of local a fi eptics such as arrous lyes a senoben of and perbo are of soda wa of no avail Roe tgen ray and radum it radiation cau e i no impro ement and vere follo ed by uch an intense eact) that the patient refused The ntern I a lminist ati n of f ther vp ure quini e ulphate nds lium od de o e jolo ged piod al o seemed to be of o benefit The pite t to t eight a d finally refused foo l Death resulted fom ant n R ETM G R M D

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# SURGERY OF THE HEAD AND NECK

#### Head

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# SURGERY OF THE CHEST

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# International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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#### EDITOR'S COMMENT

F the unexpected cutastrophes that occur from time to time in the practice of surgery none is more tragic than the development of a fatal wound infection after a simile operation in a cean case Two years and Meleney called attention to the relation between po toperative hæmolytic streptoc ceus y un l'infections and hæmolytic streptoc cous carriers among operating room personnel (SURG GANLE & OBST 1) 6 vlin 338) and in a later paper (J ln M is 1927 Paxvin 1332) showed that there is as as n al incidence of hamolytic strept cocci in the nos and threat which reaches its height during March April and May and tend t reced during the succeeding months. The same in vestigator and hi associates have rendered the surgical profession a great service by their careful study of a fatal case of post perative w und in fection (p 31 ) which as eventually shown t be due to a hitherto unde cribe l'anaerobi bacillus of the gas gangrene group identical in its cultural and other characteristics with an organi m re covered from the chromics ad entgut in use at the hospital during the p nol in which the patient was operated upon. The oc urrence of such postoperative complicati ns is not limite i to one h spital crone section f the country but it is not aften that the source of the infects n i ascertained with estainty and that the facts are gi on the jublicity they des rve

With reference to the courtence f stret to occus we und infect in Stelenov says (1) cit p 338). In the means hile (until this investigation could be completed) the operating staff practised very careful masking of both nose and m uth Not a single cas of p styperate wound infection with the streptococcus hemoly tieus, has since occurred (x Jenod f si months). In otontock he add that sais quently the de elop ment of another cas led them to mask not only sterile as strains. Lut everyone enterine the operating room with the result that no other streptoc cous infection le elept 1.

In some of this careful investigation in lean sincing, demonst atton of caus and effect there are many operating rooms in which only small mouth pieces are furnished for the sterile assist ants at the result that their nos a rue completely uncovered. In the same operating, rooms a startist orderlies interness and a turn doctors

come and go with no pretense of keepin ther faces masked. To omit precautions which are so simple and easy to carry out seems little short of commind negligence priticularly at the saoss of the year when the incidence of hemolities streptoc cet in the nose and throat is known to be at us highest.

In connection with the above Cuizza's dis cussion of virulence tests of the streptococcipies ent in cancerous ulcers preliminary to radical operation for cancer of the uterus is of e negal This question has received particular interest attention in Eur pean chinics (Pribram F Tentralbl f (3næk 1961 137 Fuss E M Ibid 1926 1 140 INT ABST SURG 1926 xlin 400 401) and although there is a considerable hvergence of opinion amon different workers on the subject the majority agree that utilization of virulence tests will help reduce the number of patients subjected to radical operations and to radium treatment when the presence of virulent streptocecci makes even the simplest operative procedure a serious risk

Nordmann paper on corrective surgery follow ing unsuccessful operations upon the stomach (1 277) is an interesting contribution upon one of the most frequently discussed questions of gastro intestinal surgery. Of particular interest is the fact that of twenty seven secondary opera tions the corrective operation in four cases con s ste l of pylorectomy with preservation of the gastro enterostomy and in four other cases of separation f the intestines from the stomach without further surgical treatment. All of these Of eleven eacht ases were followed by cure subjected to radical operation other cas (Billroth I in eight cas s Billroth I) in three cases) all were cured and in everyone of them the s condurily removed portions of the stomach showel a severe gastritis

Pomerov's rejort of the five year end results (j 291) Plab sheusesson of the operative treat ment of p eudarthroses (p 368) and Hatchers report to the Council on Thormacy, and Chemi try of the American Medical Association upon the rectal administration of ether and oil in surgery and obstetrics (p 313) are a few of many other interesting abstracts in this month's issues of the INTERENTIONAL ABSTR CTO of SURGERY

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# INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1928

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

EYE

Fenton R A The Differentiation Between Oph thalmic and Sinus Headaches 1 Olol Rhi iol & Laryngol 927 xxxvi 1 00

Fenton reviews the development distribution and physiology of the cerebrospinal nerves of sensation and discusses the various normal and pathological factors everting an influence upon the e nerves

He states that in the differentiation between ophthalmic and sinus headaches the patients per sonal and family history the frequency of recurrence of the headache the patient's occupation and his exposure to irritants including climatic influences must be taken into consideration. The examination should include a search for obstruction to nasal drainage nasal injuries inflammation and ordems septial and turbinal malformations allergic and touc nasal neoplasms interference with the circulation and lymphatic drainage of the eye ocular inflammations and ordema an increase of ocular inflammations and ordema an increase of ocular inflammations in the retina and nerve insufficiency of the ocular musculature and refractive and accommodative errors.

The particular group of nerves which is irritated must be determined. When these are placed at rest the headache will be stopped or at least relieved temporarily. Such rest may be effected by local ischæmia or anæsthesia and the avoidance of specific irritants and irritating tasks.

The headache may be central in origin with symptoms referred to the eye or nose. It may or may not be relieved by local measures. Eye or nose symptoms may be diagnostic of a cerebrospinal cardio-viscular gastro intestinal or renal ailment. Head ache may be psychic with symptoms referred to the eye or nose.

It must be borne in mind that ocular and sinus headache may exist at the same time and that degenerative general disorders may increase slight ocular deterioration or nasal stasis into relatively serious complications Lessin L McCo MD Goar E L Glaucoma Following Obstruction of the Central Vem of the Retina ! J Opith

In the case reported by the author the glaucoma developed eighty two days after the thrombosis Medical treatment was tried but was unsuccessful A month after the onset of the condition the even senucleated. At that time the blood pressure was high the blood showed chloride retention and a peripheral abscess of one tooth was found. The tooth was removed. When the patient was placed on a salt free the the arterial hypertension and the hemorrhanges cessel.

The pathological report on the enucleated eye is given The essential changes were found in the media and intima of both arteries and veins in the retina. The choroidal vessels were markedly thick ened and congested. Throus D 'LIEN' M'D

Lewis F P A Non Operative Treatment of In flammatory Glaucoma J Ari W 1ss 1927

The author emphasizes the importance of light and heat in the treatment of hypertension particularly that associated with acute congestive conditions. In combination with the dry radiant heat of an electric bulb he uses a glycerin olution and frequently foreign protein and dionin.

He states that such treatment results in the relief of pain and a moderate reduction in the tension

THOMAS D ALLEN M D

Gradle H S A Conjunctival Drain of the Anterior Chamber An Operative Technique Used in Absolute Glaucoma J Im M Ass 1927

In the operation described in this article a tongue of conjuctiva is introduced into the anterior chamber to serve as a drain. So far Gradle has used the procedure only in absolute glaucoma. In this condition it has given exceptionally good results.

THOMAS D ALLEN M D

Γx L W Congen tal Cataract A Plea for Var etv n It Surg cal Te tm nt JA

971 49 Parker W R Cata a t E t action The Com parat R ults Obtain d by the Comb ned Simple and Kn pp Torok Victh ds f P o cedu J 1 W 4 0 7 1 cedu J 1 W 4 971

Dunpl y E B Loss of Vitreous in Cataract Ex

taton J 4 W 1 Q7 IXXXI

Fox states that hen the per phery of the lens is clear n congenital cata act he does a small opt cal iridectomy in the nasal side of each eye (cataract usually bilate 1) placing it so as to per mit pe fect binocular it ation. This is done under g neral anæ thesia Wh capsular rema after previous needlings he removes the remna ts by gentle tract on through a corneal nci on He states the tremo I of the lens tact a rical but not always pract c l

PARKER review 300 cases I senile c ta ct ith reg I to the complic tion de el ping afte the c mbi ed simple and k pp Torok techniques hund ed case e e treated by each method The complicati s ere sual defect loss of it e ou the format n f a secondary cata act a tig

and delirium mat

The b t viual results were obtained by the c mb ed method L ss of v t eous occ rred m t f eque tly in the knapp techn q e Spo tancou hæmorrhage occu elin i tance-a case n hich the combined method was employed. Prol pse of the iris o curred n 3 pe cent f the cases-n 6 in h ch the smple technique wa u ed a d in bich the kn pp procedure was employ d Pan onbthalm to developed once following the simple tech q e a d once after the kn pp method S cond y cat racts were most freque t afte the u e of the simple tech que and least frequent after the Knapp techn que The inc dence of astigmatism as the same in the cases tre ted by the comb ned and the Knapp proc dures Dehrium occurred n 3

ca es hich ere trated by the c mbi ed tech nique and in 1 case in hich the Kn pp p ocedu e

as tt ed

Parker con lude thet in selected ceses the mple o knapp To ok meth d of e traction may g e as good results sae obtain d with the combined m thod n un elected cases He bel eves that in selected cases the combined method would g ve the best results and that this pricedure is undoubtedly the safe t

DUNPHY re e s 560 case of cat ract ext ac tion with the biect of classify ng the complic tion ith the seve al types of operation a didetermining hether lo of itreou m ke any cons derable diffe on e in the ultimate esults The com were p olap e of the in infect on hæmorrhage and loss f vit eous

13 ca es-g t The 1 prolap ed combined method and 4 treated by si t on Infection followed in 13 cases tr combined method and 4 treated by the 1 operation Expulsive hamorrhage resulted in a cases after the use of the combined method and in I case after simple extraction. There was loss of vitreou in 15 cases (8 3 per cent) It occurred in 7 I per cent of the cases treated by combined e traction o 67 per cent of those treated by simple extract on and 18 8 per cent of those in which the int acapsular techn que was used. Of the 215 pa tients with loss of vitreous only 74 returned for examination a year or longer after the operation In 50 the acuity of vision was poor and in 6 the t eatment had completely failed

Du phy concludes that loss of vit eous wold occur much less frequently if e ery eye with cata act er prope ly anasthetized by means of the la Lint inject on combined with either a deep oil tal or a subconjunctival injection. His reco ds show that of the cases with loss of v t eous 62 per cent were operated upon befo e this pract ce was adopted G o ce R Mc Aulie MD

R nne 11 The D ff nt Types f Defects of th Feld of Vision J A W A

Roe ne v Among the most frequent and char acters tic types of defects of the field of vion is the o called defect in the bundle of erve fibers which aris as a consequence f the course of the erre acros the tina From the asal half of the papilla they exte d adially hereas from the upper and l er edge they tend in large curve abo e a d bel the m cul

The pper a d lo er bundles of nerve fibers meet n the temporal p t of the etin The hori ont I me dian i a rect I near r phe which from the m cul e tend quite ut to the temporal m rid an of the t na

He desc bes 1 detail and 1th d agrams the 'art ous defects the field of a sion caused by injury or natbological co ditions b eaking the conti u ty in the cour e f the nerve fibe s

The defects in the nerve bundle occur in a great mber of diseases They are to be not d mo t fre q ently a glaucoma Th defect in the vi ual field al ays ha to origi in the all of the glaucomatous

e cavat on

Othe condit as discussed are opt c neuritis vascular defects and conditions resulting from the arra gement of fibers Th author e pla ns how the defects in the field a e p oduced by these va i us ahnormal t es LESLIE L McCoy M D

P J Plotographs of the Eye (Lft fidlfdd 1) R d Plotography of th Eyeg dd 97 358

Bedell A J A Photographic Study of Holes in the Macular Region and Associated Changes im J Ophth 19 7 x 3 s 890

Bedell says We are not unmindful of the fact that an actual bole in the macula has not been dem onstrated pathologically but there are miny reisons for this the most important one being that eyes so affected are seldom subjected to pathological section. He reminds us bowever that depressed areas are known to occur and he includes in his article several photographs of a number of such areas with and without surrounding pathological changes.

Lister Sir W T Some Points in Connection with Detachment of the Retina B u M J 19 7 1

Lawson Sir A The Value of Antiseptics in Modern Ophthalmic Surgery B t M J 19 7 1

Lister urges more thoroughness of examination in cases of retinal detachment including the use of the slit lamp and more rational treatment. In general in this condition the retina is dragged in pushed in or floated in. When it is dragged in by circutrical bands as in retinities struct treatment is of little avail. When it is dragged in by vitreous bands division of the bands is beneficial but if the vitreous is fibrous treatment is useless. Evudative cases with fluid poured into the interretinal space are at times amenable to medical or surgical treatment alone or combined. When the rotina is floated in by fluid passed through holes in it treatment is not ant to be successful.

If treatment is instituted it should be thorough and include rest in bed constitutional treatment and measures to remove interretinal crudates such as mercury inunctions the use of potassium todide the application of blisters to the temples and sub conjunctival injections. Surgically a scleral pune ture is indicated.

LANSON discusses asepsis of the ophtbalmic field from the standpoint of the conjunctival sac the instruments and dressings the surgeon s fingers and the lash area

The normal sac is in itself asciptic and requires no preliminary treatment but before operation the sur geon must assure himself that the sac is health, and free from discharge. A simple method of determining whether the eye is free from discharge consists in placing a pad over it for a few hours. When a discharge is present measures must be taken to remove it before operation is undertaken.

Contamination from instruments is now a negligible factor. Contamination from the handling of instruments can be prevented by frequent washing of the hands with alcohol and care to avoid handling that part of each instrument which touches the eve. To prevent infection from sutures the author recommends the instillation of n 1 roos solution of flavine when the stitches are put in and twice daily thereafter. To prevent or decrease infection from

the lash area he uses flavine or a 2 per cent solution of protargol George P Mc Auliff M D

Van Heusen J A Some Remarks on Lagrange's Surgical Treatment of Detachment of the Retina Brit J Ophth 1927 vt 593

Van Heuven discusses an operation to which the name colmitage has been given In this proce dure a triple row of punctures is made with the galvanocautery or the thermocautery in the selerotic coat after the conjunctiva has been loosened around the cornea. The conjunctiva is then sutured in place. In practically every case of detachment of the retina the intra ocular tension is lowered. After colmating the pressure is increased and the detached retina is pressed down against the will of the eve. According to Lagrange the increase in pressure after the operation is due to the formation at the cauterized spot of a constricting ring where the fluid of the eve normally escapes.

Favorable results cannot be expected from col matage in cases of detachment of long standing cases with extreme myopia or cases in which the lens is absent. In traumatic detachment of the retina in normal eves colmitage is more favorable than conservative therapy. Although re attachment may occur under treatment with rest in bed bandaging the use of atropine etc relapses almost always occur in such cases. Colmitage never has an injurious effect.

To determine the cause of the increase in intra ocular pressure after colmatage the nuthor per formed a number of experiments on rabbits. Estimations of the percentage of albumin in the fluid of the anterior chimber indicated that one factor is no increase in the albumin content. Other factors are the vascular dilutation produced by the stimulus applied to the wall of the cyclall around the cornea and the constricting ring produced by the operation which impedes the discharge from the cyclall.

Van Heuven states that the condition existing in detacliment of the retina may be conceived of as follows

In a space filled with liquid—the eyeball—a partially detached membrane is suspended. The membrane is therefore surrounded on both sides by liquid. Pressure on one part of this liquid mass does not force the membrane against the wall because it is prevented from doing so by the fluid at the back. Because of the great increase in the albumin content in a portion of the retina after is an osmotic action in which the retina acts as a semiprimeable membrane. This hypothesis explains why fluid enters in front of the retina and is lischarged at the back.

Oliver K S and Crowe S J Retrobulbar Neuritts and Infection of the Accessory Nasal Sinuses 1 ch Otolaryngol 1927 v1 503

The authors state that acute neuritis of the optic nerve may result from (1) syphilis (1) tuberculosis (3) acute infectious diseases such as erysipelas mumps influenza etc (4) multiple sclerosi and (5) infection of the accessory nasal sinuses

Changes in the papill macul r bun lie result in an ab olute cent al se toma fo fo m and colo and ma ked lo of vi ual acuity. If the inflammation onti ues bool to blind iess ma re ult from the The efor a prompt nl econdary ontic atroph th rough se rch m st be ma! for the ou ce of infe t on

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CRIMAI MD

#### EAR

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Th autho g es the classif t n flabs nth ne e mple i by Wittn ck. Ihi theh tlgcl hange fon 1 th in largel mals pe ime tally inf tel The I ear f f ther uthorit are l h

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frequent portaf of invasion. Uffenorde claims that it is possible for the laby rinth to be i waded through the intact membrane of the round indow by dale is of soluble bacterial towns. In other cases the invas on take place through an open rupture in the vin lo membrane Fo our knowled cof the histologi I change in tympanogenou acute labyr nth e are indebte I to Herzog The labyri th can be a! lal other ghacapsular ero ion The erosion may be superficial o involve the entre thickness f the bone. The author cites Alexa ler's description of pur lent labyr nthiti as a patholog cal ent to

The history and di gnost c factors i a clas cal a e ol acute diffuse labyrinthine suppuration t toge ous f m) are summarize! The primary 1 int 1 th hi to v of an acute or chronic middle ear up pu atio Occa onally the history of a dis charg fr m the ear 1 not given for the reason that th middle ear n objement as not suffciently se r to cau e a upture of the tympan c mem b ane The deafness s complete M, pate is complain of total deafness hen f nctional hea ing to is reve I the presence of a co siderable rem nant of hear g For funct onal te ts the auth t 3 meter Pol tzer speaking t be in com ne the z

th the B rany noise pro t ce binati n The fo k te ts give characteristic fi dings fn

ute labyrinthine uppurat n the loss of heari mu t occur udd nly to be diagno tic. The pate t e perie ce the subjects e sen at on of turning in the f ont land ho zontal planes a v from the affected le At the me tim e ternal objects seem to be I fr m th affected ide Th I tene ve t go de lops sudd nly In the c se of labyn thine di tructio the pate t fall to a lithe side There i p ntines sm elrtin f the lesso hr nt Inyst gmu Ir cted a vi m thes de

the de tuction The quick comp ne t th 1 by I ected a as fr m the 1 le of the affect tain mp tant labir ntl ne te ts re n ce sary to confimtlep u ptiedagn The e dim n hed lert in ny tagmus to loth des but er cially t and the de of the affects n The calo c t t the m st reliable 1 determ ma whether the I byr nth is completely ut of function orn t In the gal a c test the eact of the nner ear d the eighth ere o the side of the le on 1 hed The fistula test i negati e

The author b lie that hen a positi ed ig o f I thu e l b I thine destruction I made radical ma to lop rat should be pe f rme la d follo e4 imme lately by a ope ation on the er ear í rife etlh hment of drunng He des bes his mod fi

cati n of the Neuman pe ation hich he has em plot lio thel th efects is I leach tore selectelf om linge grup W MPT MD reporte l

Lyann IIW Infintile Mt dti witi Gt t h Oll Intestinal Symptom 21 97 5 6

The a thorst testh t masto di lem nt ma brepn blef une plined cholera infa tum vih diarrhesa comiting and loss of weight. In such cases there should be close co operation between the pediatrist and the otologist in deciding as to the advisability of operation. If the infant is in good condition incision of the drum head may suffice

The author operates under local anæsthesin. He attributes his fatablies to the patient's general condition.

George R. Mc Veller, M.D.

#### NOSE AND SINUSES

Schmiegelow E. Clinical Remarks on the Use of Surgical Drathermy for Malignant Tumors in the Anterior Air Passages. La vigo cope. 9 7 vvv. 8 1

The author states that in the treatment of maliginant tumors of the nose diatherms gives better esults than are obtained by ordinary surgical methods. Liectrocoagulation prevents the spread of the disease by contact or metastasis. Good results can sometimes be obtained even when the condition is inoperable. In one of Schmiegelow s cases an extensive fast growing sarcom of the upper jaw was successfully destroyed by surgical diatherm. The extent of the operation should not be influenced by cosmetic considerations. Postoperative fixeal defects can be remedied by plastic operation.

The author reviews eight cases of tumors of the upper jaw three of which were cured. He regard electrocongulation as the most effective and least disagreeable method of destroving matigaring growths of the upper jaw. In buccal carcinoma it seals the blood and I winh channels and thus lessens the dan ger of local recurrence and metastass.

In the treatment of localized tumors of the tonsil surgical exci ion gives very good results but electro coagulation may also be successful

In cancer of the laryny the method of attack must be carefully chosen. For localized earner throtomy with excision of the disease I vocal cor I is the method of choice. More extensive growths require total rejection of the I riviny or destruction of the lessing by electrocongulation. The destructive

value of radium and the roenteen rays is doubtful In certain forms of concer particularly cancer of the upper aditus larvingis and sinus pyriform of the upper aditus larvingis and sinus pyriform of the upper aditus larvingis and sinus pyriform of the successful results and suspen ion larving oscopy in the treatment of these conditions. He report several ere of cancer of the epiglotus in which successful results vere obtained by electrocapulation.

With the MD

Denn L. W. The Influence of Purnasal Sinus Infection in Infants and Young Children upon Certain Systemic Conditions and the Influence of Certum Systemic Conditions and the Influence of Certum Systemic Conditions in Infinits and Young Ci didren upon the Vethod of Trenting C Existing Sinusitis 1 Orl Kirle Ling C 1927 vs. 1933

In infants and young children a focus of infection in the na al sinuses may cause a cardiac lesion, rheu matic fever chorea nephritis pyclitis eycle vemiting deforming periarthritis anamia anorevia mal mutrition or a chronic digestive disturbance. Remote effects more or less peculiar to paranasal sinus disease are bronchiectasis asthma and the cholerumfuntum syndrome.

I articularly in cases with systemic complications there is no infallible rule for the treatment of para nasal sinus disease. The combined clinical judgment of the pediatrist and the laryngologist is necessary to determine the proper procedure. The choice of treatment depends to some extent upon the systemic condition. In certain or es of cholera infantum immediate drainage of infected sinuses may be imperitive. In cases of nephrosis and drabetes on the other hand it may be necessary to avoid all traumatism of the mucous membrane.

Illustrative cases are discussed in detail. The treatment is reviewed and the end results are reported. The importance of the pediatrist in the care of such cases is repeatedly emphasized.

In young children the treatment of choice for chrone paranasal sinus infection is dietetic and chimatic. In bronchiectasis treatment of co existing chronic suppurative sinusitis has given the best results. Diet is an important factor also in this condition. Even in children it is occasionally necessary to operate on the ethnoid sinuses.

W M PATON M D

Emerson F P The Varying Symptomatology of Chronic Maxillary Sinusitis Depending on the Pathology Present 1 n Oil Rhivol & Larvin g 1 92 vv 947

Chronic catarihal manillary sinusitis results in thickening of the mucous membrane which favors virulent infection and the development of empremia. The prominent signia persistent unilateral or bilateral moved discharge.

Cases of chronic maxillary sinusiti resulting from a suppurative process may be divided into three groups (r) those showing a thickenel membrane and free pus (2) those showing a thickened mem brane an I no pus an I (3) those in which the lining membrane i un lergoing a degenerative proce s. In the first group the common signs are a purulent nasal discharge and pharyngeal irritation. In exncerbations of the chronic process there may be pain or discomfort over the affecte l antrum and an in crease in the lischarge. The di charge varies from a thin fætid secretion to a purulent or mucopurulent discharge Since the pithological changes are confined to the superficial tissues secondary involve ment of h tant organs is not common. Acute ex acerbation however may be followed by disastrous results An illustrative case is reported

In cases of the second group, the relationship of the simustia to satemic conditions is often over looke! Leute exacerbations of the local process may be followed by systemic complications leading to chronic invalidism or death. There is increasing evidence that unvolvement of the mucopercosteum in these cases is a menace to the g neral health. When the mucoperiosteum 1 involved the entire lining membrane must be removed

Seven illustrati cases are reported in detail with egard to the symptoms the p thological change

and the results of operat on

In the third group of c ses there are usually no symptoms until an acute exacerbation occurs Dur ing the acute pha e the s mptoms are those of a subacute has phar gitis U ually there is no pain o e the affected antrum D agnostic la age of the antrum may how gelati ous mass or give negative result The v hole m cosa undergoing a degenera tive change. When acute e ace batto s'are folio ed by system c symptom the entire lining membra e mu t be remove li the quiescent interval Typical ca es are eporte l UMPTIM #

#### NECK

Renhoff W. F. Jr. Hyperthyroid sm and Its Rel tion t. Benign Tum s of tie Thyroid Glnd 5 # W J o

The theory of Mob us that ex phtbalmic go ter due to an ex es of no mai function of the thyroid g of nical and ex gland is supp ted by the follo pe im ntal evidence

r The production of the gns and symptons of h pe thyroi li m and the clief f hypothyroi lism by

the admi tratio of thyroid extract

2 The con tant association of hype thyroid m th hypert ophy I hyperpla a of the parenchy ma of the thyroil gla d and the fact that during a mis ion obt i el by the admini tratio ol iol e the physiological st tu is estor d to approximately normal with in lut o f the hype it stie thy roid pa enchyma t a m ero e p eal appearance m re early e embl g th t of th normal gland

a The deer age the hal metabolic rate depo sition i collo d and in lutio of the gland during an art fict lly induced spontaneou emissio

4 Ele tion f the b sal metahol c rate following the administ ton of thy ode tact and also i a sociat on vith hypertrophy and hyperplasia of the ther d pa e chema

5 The abse ce of any other c n ta t pathological lesion f co sequence other than hypert ophy a d hyperplasia of the thy d gland n cases of hyper thero dism

6 The ure of the hyj thyroid m by the surgical removal of go per cent f the thy d pare chyma

In ten ca es of acute i lmmati g hyperthyro dism after an a tificial emis to the chinges in the histo I g cal structure of the thyrod e e as follo an increase in the amou t of colloid (2) a increase in the conjective to ue in the glad (3) a decrease in vascula ity (4) n ince e in the size and egu larity of the ac ni (5) a dec e se in th height of the epithel um (6) a decrease 1 the cytoplasm c hod e of the epithel al cells and (7) a decrease in the mito s a d lymphocytic i filtration. The m croscopic struct re of the thyroid gland therefore und ry ent a change from a state of extreme hypertrophy to one approximating the normal by tological structure

If the period of involution is prolonged the histological changes in the thyroid exceed the usual and average amount of involution espec ally in certain areas These areas become enlarged and form nod ules which may be divided into three gro ps (1) those that form colloid cysts (2) localized and e capsulated treas of d lated colloid containg acin his tologically and stanguishable from the so called col lo d adenomata and (3) areas or lobules in which the involution or regression has reached the state of dege eration especially toward the center of the lohule which is characterized by a disparity in sie and pauc ty of disintegrati g acini in an abunda t ordematous stroma fb ous tissue and extra ac r tollo d

These areas of hyperinvolution or degenerati e regresse e tumor have been termed involutional bodies

It is therefore pos ible for no lular go ter to develop from the spontaneous or artific al involution of a smooth diffuse hypertrophy and hyperplasia of the the road gian I duri g a remi sio in cases of hiper thy to dism

From a study of 100 cases of nodular gotter the author has come to the conclusion that the term tor e adenoma i incorrect a d should be abar doned He believes that the clin cal diagno schoult be diffuse or nodular go ter with or without hype thyro dism and the macroscopic pathological dag nos s liffu e o nodular gotter thor without haper I How R Woo B Y WD trophy or hyperplas a

Else J E Re, nerati n of the Thy dGl d d tie Pe ntlon of Recu rent & ters J 4 9 7 1 2 53

The prevent n of recurrent gotter is an importa t problem in the treatment of thy roid d sease Recur rences may be classified as (r) pscudorecurrences ( ) recu rences 1 ithout s) mptoms and (3) recu rences with symptoms

Pseudorecu ences are generally the result of

diag ostic e ror permanent lesio s or insufficie t operation Recurre ces without symptoms are characterized

he a defin to enlargeme t of the rem in a ther if vithout the sympt ms i hyperthyroids m and th a normal or subno mal basal metab le rate The follo ng patholog cal p ocesses have been reco nized (1) colloid go t r which 1 probably the most common lo m (z) diffuse adenomatous gotte and (3) true ad oma Patie ts with g ifer of the true colloid type are relieved by d si cated thyrod Diffuse ad omatous goiters and that aden mata are not benefit d by medical t eatment a I the m jointy of them probably become to c

In the g up of recurrence of gotter ith symp t ms are placed cases ith a hi tory f complete rel ef after tho operation followed by redevelop m nt f the gorter and recu re c of its toxi its In such cases all thee of the common type of to

goiter-toxic hyperplastic goiter diffuse adenoma tous goiter and true adenoma-have been found

A study of patients with recurrences and of the tissues removed in a subsequent operation showed that the most common change is an increase in colloid The limited portion of thyroid left was rendered sufficient by the added stimulation to produce enough thy roxin but in doing so it produced an overamount of colloid and a simple colloid goiter

In experiments on dogs hyperplasia and hyper trophy were found after partial thyroidectomy but were more marked when the animals did not receive iodine during the period of regeneration. The byper plasia was most marked in cells that could not be identified with any acini and were regarded as being derived from the interacinar cells described by Web ber In the earlier portion of the regeneration period mitotic figures could be seen in the cells lying between the acini but in the later portion of the regenerative period these cells occurred in such masses that they could not be positively identified as having sprung from the interacinar cells. In one animal there was a definite tubular formation in these cells such as is sometimes seen in the masses of cells

found in colloid goiter of long standing
With the exception of a forty five day dog the thyroid gland in the animals receiving iodine was approximately normal after the twenty second day except that in some instances it showed an increase in the undifferentiated cells lying between the acini In the forty five day dog there was still hypertrophy

of the intra acinar cells

In the dogs not receiving compound solution of iodine the hyperplasia and hypertrophy were greater and there was an increase in the amount of colloi ! in the twenty two day twenty six day twenty eight day thirty day and thirty eight day animals In the thirty and thirty eight day dogs the increase was so great that it presented the appearance of a colloid goiter. The thirty nine day dog had a colloid goiter at the time of or eration. At the end of the period the colloid was less than normal but tubular formation fetal acini and areas of undifferentiated cells were present. The twenty and fifty one day dogs developed thyroids that had the typical ar pearance of toxic hyperplasia goster of mild degree without symptoms. In the author's opinion the study of the entire series warrants the conclusion that recurrence following operation depends upon the control of regeneration and that in animals thyroid regeneration can be controlled by compound solution of iodine

In man recurrence of gotter is not infrequent. If thyroid regeneration in animals may assume the proportion of a goiter when uncontrolled it is reasonable to believe that the same may occur in The author arrived at this conclusion em pirically about two years ago and then began giving compound solution of iodine after as well as before the operation for the purpose of controlling regenera tion Later he gave a small amount of iodine to secure proper thyroid function. It has been only

two years since this practice was begun but the author has not seen any evidence of recurrence in that time His routine treatment is as follows

I The thyroid is saturated with iodine previous to the operation by the administration of from 10 to 5 minims of compound solution of iodine three or four times daily according to the severity of the hyperthyroidism Patients with non toxic adeno mata or diffuse adenomatous goiters are given to minims three times daily for two or three days

Following the operation the thyroid is kept saturated with rodine during the period of regeneration by the administration of from 15 to 5 minims of compound solution of iodine by rectum as soon as the patient is returned to bed. This dosage is repeated three or four times daily according to the severity of the hyperthyroidism preceding the operation As soon as the patient is able to take the jodine by mouth 10 minims are given three times a day for a month The dose is then cut down to 10 minims daily for another month

3 A sufficient amount of iodine to meet the needs of the thyroid gland is administered continuously For this purpose the iodized salt is prescribed if other members of the patient's family have normal thyroid glands otherwise the patient is instructed to take 10 mgm of rodine in a chocolate tablet dails

MERLE R HOON M D

Simon F Heart Block After Goiter Operations (Ueber Herzblock nach Kropfoperation n) Zen tralbl f Cl r 1927 liv 060

Persons suffering from goiter always have poor The cause is hyperfunction or cardiac function hy pofunction of the thy roid and mechanical pressure upon the trachea blood vessels and nerves. Accord ingly there is to be differentiated a hyperthyroid from a hypothyroid and a dyspnæic from a conges tive heart block lue to goiter The operation for gotter is incidentally also an operative treatment of the heart If the operation is done under local ares thesia the heart is relieved from the cause of its functional disturbance. This explains why cardiac complications are relatively rare during operations for gotter. In r28 cases operated upon during the last two years they occurred only once

However cardiac disturbances may result from injury of the vagus nerve. The vagus does not always he within the vascular sheath I articularly in cases of tumor it may run in front of the vessels and there fore may be injured easily. Mechanical irritation of the vagus is much more dangerous than vagal sec tion It is followed by slowing of the pulse which may lead to fatal syncope. The heart may be injured also by respiratory disturbances caused by irritation of the vagus The e produce spasmodic attacks of coughing and dispince gasping respiration vari ations in the rhythm and ces ation of respiration (bronchial spasm swelling of the mucous mem brane)

Eden's theory that pneumonia following oper ations for goiter is due to irritation of the vagus i not accepte I by the author E len oper tes under gene al anæsthesia and in Sm n opinion his pul monar inflamm t s are due to this fact In the prevent n f pneumonia the uthor has seen as gool re ults f om the p stoperative injection of afenile as the laned by Elen

S m n report a case of vag r heart block fol lo ing an ope at o a oman fifty yea of age The ctn fapatl toter alan I partly retriceral gite as fill elby eve e callac hich cull not be flue cllv the us Istimulant a datfrt ereattrilute I tom s cular uffic nev On the th I day the a fe er ith lebrium 1 s c ti n f car hac function (1 eg ular v t l pulse a es at the ate if m thirty to f rty a minute au cular intraction in april ucces ion 1 rreg la and 1 trele o trac to ) Afte the dm tratin of itro; ne thr m klimpr ement l l c ti uel

atr pine treatme t rec v ry re ulte! N't la the e ect n thier endit cult but the he rt had been myu 11, th g ter b for the operation a was endene it whip r tophy and dlat tion The e d cu db the mech nelpre ure of the g tron the lol sels f the neck. It is suble that the agral of a jured b f e the p t b the pres ur f the gotrothat at the tm f th thy ere in a highly rritible on it operat

as sugge tel b a slight pe p ti paral f the recu ent lary geal ne a 1 1 ght1 regul dr latt elv lo pul Ierhap loth
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llrum e lu t the ffect o the girt pe to Th talno m l rr tability of the gu dom nated th chinical picture as eitenciby the ma kel mp ement esult g from atr p et t ment Ligl ftheat pre ec a f lerabl le gth f time ( le m lactite an l dg tal gien lit hal f abl ff ct upon fleiency of th h rt mu cle Th th t ft r the emos l f large go te inj f the vagu m t be lo mıl hen mptm ( e tel In the p e f therene uch ju the lm trat f at p

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Thomson Sir St C L yngofi sure f r l trin ie nom of the L ryn Four Case in Medi cal Men Who Are No n Act v Practice T o and a Qu ter Th ee Four nd a lialf a d Fi e and a Half Years Afte Operation P 1 y S Md Lod 19 7 x 1 89

The author reports four cases of trips c carr n ma of the! vnv1 me l cal men In all the les on as limite I to the cord an I did not 1 ade the subgl trict ne The ewa no mnarme tof mobile The hagno i rested chiefly on the mac o cone appeara ce of the le o I one c se it s con firme | by biopsy Syphili and tuberculosis ee uled out ly the u al methols of investigate Laryngohssure 1th removal f the thyro i ia s p fo m 1 Il cases In order to secure c mplete protection against the lesce t of septic materal a 1 blol nto th bronch a trache tomy vas do e Po t perative homo hage occurred in ne cale The u ce s sound outs d the larvnx and traches a I the blee I n controlled by packing Con alescence as uneve tful and reco e v rap d In e y t ce i eful voice and an apparently permanent cure ere btained

The author concludes that eacs su table for la vngofi u re these with the groth him ted to a m bile cor l and th no subgl the i filtrat n N T PA

Larynge t my in Cancer f th Coll dg [ L vn L 1 0

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4 The lel both cale rd the eticu la banl anl tl ubgl the reg n ha e bee attacked and the l vn i hoked by the gro th I P K N & MD

#### SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS CRANIAL NERVES

Creyx and Loubat Indirect Injury of the Brain Treated by Trephination One and One Half Years Ago Retrospective Diagnostic Considerations (Traumatisme ind rect de l'encephale trepanation datant du na net deum considérat ins diagnostiques retrospecti e) J d itéd de Be deiux 197 cu 6 09

A man twenty four years of age was kicked on the chin during a football game and three hours later developed jacksonian epileptic attacks which began with tingling in the left hand followed by loss of con sciousness and generabzed convulsions with biting of the tongue Four of these attacks occurred The avillary temperature was 374 degrees F and the pulse 90 Lumbar puncture showed no increase in pressure The spinal fluid was slightly rose colored as the result of accidental injury of blood vessels dur ing the puncture Subdural hæmorrhage from the right middle meningeal artery was suspected but trephination on the right side three days later re vealed no lesion. Cerebral puncture was negative On postoperative lumbar puncture the spinal fluid showed no increase in pressure no hemolysi and no tubercle or other bacteria but a slight lymphocy tosis (twenty five lymphocytes) was found. The sugar content was o 86 gm per liter and the albumin con tent o 6 gm per liter The Wassermann test was negative. In the year and a half that have elapsed since the operation the patient has remained well

The authors doubt that the condition was traumate. They are inclined to believe that the traumated indirectly to avaken or accelerate the evolution of a localized brun disturbance possibly of unfectious nature. This opinion is based on the slight fever the pulse rate the slight lymphocytosis the increased sigar content of the spinal fluid the free interval between the injury and the jacksoman attracks and the absence of compression.

WALTER C BURKET M D

Swift G W Choked Disk in Intracranial Lessons tile Mechanical Factor in Its Causation V II - 1 Med 1) 7 1 579

The chief factors to which papilledema has been ascribed are pressure upon the cavernous sinus with resultant blockage of the ophthalmic and the central retural veins (von Griefe 1860) obstruction of the lymph flow from the eve by pre sure (Schmidt Rimpler) inflammatory changes (Leher 1881) visionitor disturbances (Jackson and Benedickly chemical changes from metabolic products (Kruckmann and others) and disturbance of the arternal venous or cerebrospinal fluid circulation

The author cites eases of choked disk resulting from ancurrsm and thrombosis of large basilar arteries skull friedures with cerebral damage influenzal pneumonia with resultant engorgement of the brain and stagnation in the intracranial sinuses and acute pneumonia with cedema and an increase in the intracrunal pressure.

The article includes a number of illustrations showing the main vessels of the optic disk and choroid the vinous eirculation of the brain and skull the effect of blockage at different locations and vinous types of choked disk due to aneurisms

and tumors

In cases of tumor of the optic nerve attophy re sults but papilledem does not develop because there is no interference with the venous return Aneurism of the circle of Willis produces choked disk only when the venous strusses are blocked. Lessons in the cerebellopontine angle produce first unlateral and later blateral choked disk. Blockage of the transverse smus results in choked disk early if the large snusses are cut off or the aqueduct of Sylvius so obstructed with resultant hydrocephalus. These lessons are associated with a higher intracrinial pressure than lessons stuuted clsewhere

The time of appearance of choked disk depends upon the location of the lesion. Direct pressure against the sinuses causes early choking whereas indirect pressure such as occurs in ordema and hydrocephalus produces a late papiliodema. The cerebrospinal fluid acts as a factor only by in creasing the general pressure and not by extension through the varinal sheath of the optic nerve.

The article is supplemented by a bibliography
ALBERT S CRAWFOLD M D

Shuster B II Intracranial Complications of Otitic Origin with Reference to Diagnosis and Management L y goscope 9 7 xxxvii 897

The author discusses conditions that may arise within the heal a the result of infection of the ear—extra lural and subdural abscess sinus thrombosis meningits labymithits and cerebral abscess

Cases of chrome otitis media may be divided into two general groups—those with a frank discharge and those with a mili recurring otorrhea. In the first group interactinal complications are rare Mastorditis often has a tendency to become cured without operation. After operation in this conditions some viriation in the temperature pulse and respiration; to be expected but usually subsides in from seven to ten days. I am restlessness and maxima following, the operation also cease as a rule but if they do not the possibility of an intracrimal complication must be considered. First bowever all other causes must be ruled out.

stitch abscess or pus in the wound may explain the picture or the symptoms may be due to an ilment such t nill us diphthe ia appendictus involvement of the other ear pneumonai ith or thout me ngeal irritation o ephrius On account fit le nau ea v miting unl dez me's patients ith chroic pu ule t tit me ha a eftent et eld f guir ed it u he e's

There are a fe vmnt ms h ch alone or in com hould drect attent t the head The most important is leadache. This may be se e r per te t or both \nothe om ting vith or ithout heala he l v thout a sociated g stric ailment A thirli vertigo Fe r chills and a d stu ba ce f th Ito bet on the pulse temperatur an l re p ratio e ugg ti e Local ig eu olog l g li confimant diagno of intracranial complications. With the exc pt o of these Il f the igns mentione i may be pre ent n ther ailm t u h a acute n l ge to a diff

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Brain abscess and meningitis a ccharactery to by beadache and a change in the mental to be meningit a the mental processes are quick, which brain abscess they are slow. The fear of lumbr puncture in cases of suspected sinus thrombos sebrain abscess a probably founded upon expere a but in the author so opinion the su goon is no justified in remaining in ignorance because of por results in 1 olated cases. I obey has done hu drefs of puncture ——many in cases of sinus thromboss of puncture ——many in cases of sinus thromboss—

thout causi gill effects In d scussing the symptoms of brain abscess the nuth r empha i es the occasional fall in the pule rate to subnormal in the presence of a normal t m perature and e e s the neurological local n g igns se sory aphasia and tests to detect involve m nt of the cramal ne es The Ayer Tobey test of spinal flut I esponse to un lateral jugular com p es on has not been altogether satisfactory in his hands He believes the flush g of the face and e go gement of the retinal vessels upon comp esson of the normal jugula -tests described by Ges str -depe d larg ly upon the personal element He character zes ent iculography as a formidable pocedure fo d g os s when an abscess is me ely suspect d In certa n cerebell conditio he has found Barany tests helpful The importa ce of an

accurate hist v s mphasized A scler tic masto d'is dange ou It i gener ll looked upon as a healed inflammation but in every chronic case the nt acranial complications which is e es d by the autho the mast d was hard and sclero ed on the surface a d the depths of the b m ho ed nec osis and infection When the e B mastor i pain folior ing chronic otorrhœa and sel 10 the r entgen gram prompt and h n radical urgery is a leated Packs for the control of s nus bleeding are generally left place f rse et days afte one ation for s nus thrombos s but in the a tho op on should be emoved as early as p sble to p e t back vard infect on In one of Shu ter a e the packs ere removed after twe to

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tion of the fluid its localization depends upon a proper conception of the results of such obstruction on the ventricular system. Any intracramal neoplasm of sufficient size to produce an increase in the intracranial tension will cause variations in the position size and shape of the ventricular system In some cases these variations are the only means of localizing such tumors and it is in such cases that ventriculography is indicated

The technique of replacing the fluid in the ventri cles by air and making the ventriculograms is described in detail The chief difficulty in ventricu lography is the interpretation of the shadows seen on the roentgen ray plates The most important single factor in the avoidance of errors in localization is complete removal of the fluid from the ventricles When this is done any abnormalities in the ventricu lar outline must be due to pathological obstruction rather than to the trapping of unaspirated fluid in one of the ventricular horns

Broadly considered intracranial tumors cause asymmetrical variations when they lie within the cerebral hemispheres lateral to the midline and impinge directly upon the ventricles and produce symmetrical variations when they obstruct the free

circulation of the cerebrospinal fluid

The differentiation of supratentorial and sub tentorial lesions is considered in detail emphasizes that in the study of the findings of ven triculography the clinical findings should always be horne in mind. He summarizes in a table the results of ventriculography in a large series of cases collected from different clinics In about 23 per cent of the cases the tumor was localized from the ventriculo gram alone the neurological findings being incon

Sosman discusses intracranial lesions from the standpoint of the ordinary roentgenogram and describes the roentgen signs of skull lesions With few exceptions lesions of the skull are similar to those of other hones they include injuries anomalies and deformities inflammations and repair and

primary and secondary new growths

In the diagnosis of brain tumors the roentgen ray may give general or localizing evidence or better indirect and direct evidence. The general signs are mcrely those of increased intracranial pressure and are of comparatively little value Occasionally displacement of a calcified pineal shadow may furnish valuable evidence as to the side of the lesion Direct evidence of a brain tumor is the visualization of the tumor by means of a calcium deposit in the tumor mass or changes in the adjacent bone caused by the neoplasm Only about a third of intracramal new growths give such evidence Some of these are described minutely and shown by rocntgenograms While the rountgen ray is of considerable value and a decided help in certain cases in the majority it is either of no help or merely confirmatory. A tumor previously unsuspected previously unlocalized or of a type other than that suspected is identified in less than 10 per cent but the positive benefits derived in that 10 per cent make it almost imperative that all patients believed to have a brain tumor be given the benefit of a thorough roentgen ray examination

ADOLPH HARTHNG M D

#### Peet M M Pituitary Adamantinomata A Re port of Three Cases Arch Sure 1927 tv 829

Pituitary adamantinomata are solid or cystic beoign or local malignant tumors containing enamel or coamel forming tissue and developing from epithelial rests of the embryonic hypophyseal duct Several types of tumors or tumor cysts in the sella and suprasellar regions have been described but there is eoosiderable confusion as to their classifica tion and etiology The most common tumor of the hypophysis is now regarded as an adenoma The cysts are believed to develop from embryological remnants of the hypophyseal duct proper or from its extreme upper portion the pouch of Rathke Cysts or tumors arising from the duct are lined with squamous epithelium and those arising from the pouch of Rathke with cylindrical frequently ciliated epithelium

Cysts arising from Rathke's pouch are primarily intrasellar in origin whereas tumors of the bypophys eal duct because of the rotation of the pitutary during its development may occur at any point from the tuber cinereum at the base of the third ventricle downward along the infundibulum to the anterior hypophysical lohe Erdheim has shown that enithelial cell rests remnants of the hypophyseal duct can be demonstrated in 80 per cent of normal adults

As compared with pituitary adenomata the squa mous epithelial tumors originating in the hypophys eal duct are relatively rare They may be classified histologically as (1) henigh papillary cysts or intracystic papillomata (2) henign or locally malig nant adamantinomata and (3) spindle cell car cinomata

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is reviewed by the author the mastond was hard and 
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In conclusion Shu ter states that King's raded t entme t for b ain abscess deserves a further trail because of the excellent esults King has obtated with it.

Gant F C The Indications f nd the Tech nique of Ventr ulography R d l gy 97

388 Sos nan M C Radi logy as an Aid in the D & no of Skuil and Inrec nal Le I R d

GRANT mphasi s that a proper app ce at n o the nleat n for and technique of vent rediga a phy a d an intelligent interpretation of vent cu lograms req e a thorough knowle ige of the norma anatomy and physiology of the cerebrosp nal fu channel When a tumor bistructs the free circula tion of the fluid its localization depends upon a proper conception of the results of such obstruction on the ventricular system. Any intracranial neo plasm of sufficient size to produce an increase in the intracranial tension will cause variations in the position size and shape of the ventricular system In some cases these variations are the only means of localizing such tumors and it is in such cases that ventriculography is indicated

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The author report the cases of seven pat cuts shaffe of fom hea lache and duz ness following had injune received from four weeks to eight ye type you ly. Ces attom of these symptoms was first of teeds in case in which lumbar insufficion as done if it dagno the purpoles. The second case pression as a contractive for the second case pression as a contractive for the second case pression as done in the second case pression as done in the second case pression and the second case in the form of the second case of the second case in the second c

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#### SPINAL CORD AND ITS COVERINGS

Herm nn L G AB II tF en the Spil

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The author eve s ven case f om the lite time and rere its one case of hown. The latter as the called a laborer ho entered the hop tal in August.

1026 complaining of shirp shooting pains and attacks of numbries in the leg cramp like pains in the abdomen difficulty in walking urmary frequency and impotence. Three years previously he had been shot by a 3 cribber pistol the bullet entering the left hypochondrium near the mid claicular line. Operation was performed at that time but the bullet was not found. As it was not thought to be in the spinal canal the latter was not explored. The patient remained well until December 19 5 when the symptoms ment oned gradually anneared. The possibility of tables was considered.

I ramination revealed absence of the patellar Achilles and plantar reflexes and sluggishne's of the abdominal and cremasteric reflexes. Over the posterior portion of the thighs there was slight hyperesthesia but this was not constant. Two tests showed the spinal fluid to be negative examination at different times revealed the presence of the bullet first in the region of the first sacral vertebra then in that of the fourth lumbar vertebra and again in that of the first sacral vertebra exploration in the region of the first sacral vertebra the bullet was not found and sub equent \ ray examination showed it to be in the region of the third lumbar vertebra where it had migrated probably because of the patient's position on the table a second operation during which the patient's head and shoulders were elevated the bullet was easily removed

The patient made a good recovery and one year after the operation was free from symptoms Except for sluggishness of the patellar and Achilles reflexes the neurological examination was negative

Before the dura is opened in such eases it is well to allow sufficient time to clapse for the subsidence of the infection. Reentgenograms should be taken in various positions and fluoroscopic and stereo soopie stut lies should be made. In the majority of the cases reported more than one operation had been performed because of failure to find the bullet in the expected position. CIBBERG VARIESON M.D.

#### SYMPATHETIC NERVES

Clark S L The Superior Cervical Sympathetic Canglion in Angina Pectoris a Microscopic Study J L b & Cl M d 927 in 101

Clark state that the location of the pathological changes of the chronic form of angina pectoris the

evect source of the pun and the best method of treating the condition are problems still to be solved He review the anatomy and physiology of the sympthetic system from the standpoint of angian pectors and the theories of various investigators regarding the condition. It this study has been made of the ganglia removed at operation. Clark reports on seven ganglar removed from such cases giving the ca chistories and the findings as to the size and shup of the nerve cells the amount of pigment the state of the Nissl bodies the relative number of capsule cells the amount of connective tissue the condition of the blood vessels and the presence of lucocytes. Six of the ganglia were superior ganglia and one was a middle cervical ganglion.

Some of the ganglia chiefly those of older subjects showed considerable brownish pigment in the
cells. This pigment is known to increase with age
but it was found also in the ganglion of a ten vear
old bow who had died of rheumatic fever a ganglion
used as a control. In some instances I implication
infilitation was found in small areas of connective
tissue. There was no increase in the connective
tissue or an apparent change in the number or size
of cells or theirs as compared with the controls. The
vessel did not show any evidence of arteriosclerotic
change.

In each of the osmic acid preparations there were small clumps of large melanated fibers resembling, sensory fibers from the cardiac plexus through the lower sympathetic connections as traced by Tdge worth Ranson and Shive These were larger than the myelinated fibers of the sympathetic nerve frunk. Concerning their origin and course the author only speculates but he presents reason for the belief that they may be sensory fibers from some excellent spinal nerve. A sensory pithway from the lieart through the virgus to the superior cervical symparthetic graphion and then to the cord by way of the rami communicantes of the upper cervical nerves has been suggested.

This histological study revealed no change in the superior cervical sympathetic ganglion which are specific for angina pectors but Clark admits that the pathological changes of the condition might be located here though they are not recognizable under the microscope. The relict of the pain following the removal of the ganglion has not as yet been sati factorily explained.

GILBERT C AND I'R ON M D

#### SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

McFa i nd J Adenofibroma nd Fib o aden ma of the Female B east \ g G 1 7 9

A critical analy 1 of 80 benien tib o en th hal tum is of the femal beast as made from the class I a I the history the log call st indoor its for the purpo e of s mpl fying the nomenclature. These tumors had he n la s ne i by nume ou pathol gi ts of five first clas h pital unler tl rtv thee differe t names including adenoma sa coma cy tiden ma

various combin tion

Ca eful microscopic examinat n r caled ox true tumors 147 non tumors and 37 indet mi te The autho su gest that the call g of n n tum rs by the names of tumors may ha e been me ely an attempt on the nart of the n th logi to to e one at

with the surg on

The true tum r er all ppa ently va eta of a ingle genu the periductal hb om of Wa ei n which the bb llar tructu se m to be terry 1f m periductal tiss. They us ally de eloped du ing the fir t half of exual life the ave age age of the patient bei g t enty eight years

The non turn rs ccu ela a rule the nl half of sexual life the aver ge ge of the piti nts being thirty seven ye. The ve simply mam mary tis e either orm ! o in som stage of i colution The author call atte ton to the t ct that there are a at mical and phy ol gual d turbance of the brea te pe ally relat It pub t pregnan v l ctatio d the m st ual p rod high may occasi lump thith yen relation t tumo s

In conclu ion McI rla I stat that a sy tem of 1 no nomenclature hich pe m ts tun or tumor to be give the sam nam fult an 1 confu n and should be aba lo ed

K MD

Handley WS Paternal In as nof the Tho a in Breast C nc and it Suppr lon by the Use of Radium Tube as an Op eatly P aution S g (y Ol t o

The author believes that in many cases of ca cer of the bre st ea ly in as on of the lymphatic glands lying along the inte nal mam n y afterie takes place pror to operation Therefo e in nea fy every pr mary operation on the breast he places a radium tube above the fi t rib close to the posit on of the terminal portio f the main lymphatic duct and buries anothe rad um tube in the interco tal musci s at each of the nner end of the first th ce intercostal space. He cite ca e to demonstrate the importance I the site in re re ces Since ne has been usi r the pre aution h ca s how improvement as regar I the no lence of recurrence

NATIAN V C OL M D

Med cal S lety of London Late Re ult of On e ation f r Care noma of the Beat B / W

The p tas b ed on 65 cases of ca canoma of the bre st hich ele operated upon ot les than to vea ago All veept 3 if the pat ents were if mals Th p gn 1 a about th same in both makes a d fem ke b t va slightly better n s gle comen than I in red omen I young persons it n t s o gen raily belie ed

Of 3 patt it upon h m the rad cal operation as pe formed 19 r lve and well m to o e lt Of patent with nvolvement of the a llars gla I at the time fith peration r vas alve and vell 3 ver late. The other was subjeted t e sto of a port on f the f u th co tal cart lage at I f th p ic lum 7 years afte the p m r p rate and diel year afte the first per ton from Jal en e In cas e c sion f th s pra la cul gl nd neces v vear aft the p m v pe ti but the patient was all a l ell b v ar ite th primary ope at on l all f th a es jut c t l th dagnos was macr cpc

as m le both macro In 1 a cs th diagno copically and micr scop lly Of 45 cales of car oma of the rhous t pe a adical opera ting pe fo med n 4 Thity oe f the pa tie is t eated by r I cal op ration re f e from r cur ce f om 10 to vear later In 6 ca es the c remoma a of the sphero dal ell typ Of 21 patents ith this type for ce who e ub sected to di lop rat o e free fron ecu rene from 10 to oven later Of a patients than h ere operat d pon r de lly tden car o all ere fee from currente form o to syears fat r Of 1 pat ts pe ate i upon radically for e cephal dea cun ma all er ell forn o to 23
ye rs lat a d of a pe ted upon d cally for duct ca c nom ll ell and free fr m recur r ce from to 6 years l te

I the man hol the stet fthe on at on ed f m local ve o of the tumor cre ci on of the bre st to em al of the beat th fascia the pectoral majo and min a d the ax llary gland Of the 135 pat nts treat d rad cally 1 ref e

from recu ence from ot yea late I ealy 5 pe cent of the tot 1 number of cases

one or m e ope at ons ve neces a v in addit o to the primary ope ation

Of the total number of 265 patients 73 6 per cent were alive and well with no signs of recurrence from 10 to 34 years after the primary operation Of the patients who were alive more than 10 years after the primary operation 1 recurrence developed in about 17 per cent C O Hermol WD

#### TRACHEA LUNGS AND PLEURA

Moersch H J and Boothby W M The Value of Oxygen Following Bronchoscopy in Chil dren Arch Otolgryngol 1027 1 54

Moersch and Boothly, explain on pathological grounds the rationale of the administration of oxygen in the treatment of laryngeal ordema and its sequelæ. A vicious circle is established by the sequence of narrowing of the laryngeal hiatus in creased respiratory effort increased variation be tween negative and positive pressures in the turminal bronchi ordema of the alveolar walls and obstruction to the diffusion of oxygen with aggravation of the dyspinora. If a foreign body and bacteria have been inhaled bronchoppeumonia results.

The authors undertook treatment with the oxy gen chamber to break the vicious circle by decreas ing the ey anosis and dimmissing the oxdema. Their object was to decrease the danger of bronchopneu

monta They

They report three cases In the first case bron chopneumonia was established before the administration of oxygen. The ædema subsided rapidly and within four days the pneumonic inflammation was nearly resolved.

In the second case tracheotom, had been done but the presence of tenacious mueus and pulmonary adema would have crused death if the oxygen chum ber had not been used Within twelve hours the patient was breathing easily and the temperature

was normal

In the third ease a peanut had been aspirated into the left bronchus. Only by recour e to the oxygen chamber could the serious symptoms be controlled. These recurred within two hours fiter the patients exposure to ordinary air and abated on his return to the oxygen chamber. During such an interval the foreign body was rimoud and a considerable quantity of pus was aspirated from the bronch. The temperature which had been as high as 105 degrees. I returned to normal on the following day. The authors believe that the child's life was saved by the use of oxygen.

Morrison 1 Γ | Lulmonary Abscess—Postopera tive C lift r | & W t W d | 927 xx π 79

The author reviews 241 case of pulmoning abscess in 40 of which the condition followed an operative procedure

At the San Francisco County Hospital and the University of California Hospital in the period from 1913 to 1917 pulmonary absec s followed tonsillectomy once in 4,800 case. After this operation the symptom begin on the second third or fourth day and the abscess ruptures between the fifth and fourteenth days. After other operations the symptoms begin with a septic temperature and often with prin in the chest on the third and fourth day. The abscess is formed much more frequently in the right lung than the left lung.

For the first three months the treatment may be medical expectant and supportive Bronchoscopy may be found of value The condition may clear up under medical treatment or run a chronic course The prognosis as regards complete cure is un

favorable

I ostoperative lung abscess may result from the aspiration of infected material or infection of the lung by way of the blood or lymph stream. The author believes it is more apt to be produced by way of the blood stream after general surgical procedures and by aspiration during tonsillectomy. In 7, 6 per cent of zoo cross of tonsillectomy. Myerson found blood in the trachea and bronch on bronchoscopic examination after the operation.

Morrison concludes that the danger of the development of a pulmonary absess is no greater after tonsillectomy than after other operations. The only abscesses that are preventable are those due to aspiration. Infection of the lung by was of the blood stream is not common. The lumph stream as a route of infection is of minor importance.

C O Iftimbal M D

#### llirscfi I S The Roentgen Diagnosis of Malig ment Neopfasms of the Lung Rad logy 927 1x 470

With the advent of accurate methods of diagnosis especially roentgen examination, the determination of malignant neoplasms of the lung has been facili tated and the comparative frequency of such lesions has been demonstrated. Since the roentgen appear ance is a representation of the gross pathology a knowledge of the latter is essential for the correct interpretation of roentgenograms. The author describes the gross pathology in detail as regards the type of tumor the mechanical consequences of the growth of the tumor the reactive processes in the surrounding lung and pleura and secondary cir culatory and degenerative processes in the tumor tissue Though a case of lung tumor when first seen may present only one of the pathological changes cited the average case and particularly the case of long standing presents to a greater or less degree nearly every variety of direct or indirect change of tumor formation

The relative diagnostic value of the clinical bron choscopic nal roentgenological examinations is discussed at some length. Different type of malignant tumors of the lung may resemble each other so closely that it is impossible to differentiate between them. Secondary tumors usually produce multiple definitely circumscribed rounded shadows. Benigh tumor cannot a ways be distinguished from malignant tumors by means of the roentgen appearant.

afon

The roe tgen examinat on gives into mation re garding the p nt of rigit the top graphical dis t but n the size the freetio fext sion and the pre ence f c mpl atto f lu g tumor The appe ranc pre entel; lue to the I llow g change () tum r (2) t n relect 1 (3) inflammat on (4) ecro (5) c rrh 1 (6) fib inou a le u la t e pleu iti l (7) lenop thy The tumo may be hilar p rench mal miliary r pleu al The rountg n pictue f ach of the e to ms is less bed l tail The detal in lir ct igns f steno are g e a d the v lue of tral onchial I polol 1 ) to s d cu ed The cha ges produced by th other c n lit m v at t m completely b cure

th prim p oc the high they a e a sociate l T) the proper differential diagno I fgo th f the hilar and alve I r tum rs are 1 idel t the stage () the incipe t (2) the fill 1 ml(3) the terms al The lesses high mu t be diff e tiat d from tumo gr ths at va i u stur reclinel diech cino tsofdiffe entiat n a gi The clinical hito v pl vs m timp rtant p rt n the diff rent I diagnosi of malig ant tum r p rticul rly the life ent t n from inflammato vie is and ben ng th At t mes a th rapeut c te t a tle form f rad ation HR \ MD

i a impritat id ۸ı

# HEART AND PERICARDIUM

Capp J A Pe cardial P in An Exp m ntal and Clini 1Study 1 / 1 / 1 M d o 7 1 7

The purpose fitle tudy rejoited in this a tick s to d termine as f r as possible hat tru ture with na dadjac t to the pe ica dium ar c pilfe of product g p in a 1 hat la s go ern the di

tr bution of the pain

The most r hable e 1 lence bear gon the e q e tions 1 to b obtai ed by d ect irr tati n f th a to s struct es 1th nant ou the p 1c dial sac and the ful ecord h f p inful en to thereby indu ed th respet to b th the qu lity and the local ti S ch b er ti f s can ot b made on nimal a 10 he c pti does the ppo tunity pre tit lf i m n

In two cases of chron c t bereulous pe card t s and to of heumatic pencarditis- il vith effu -Caris stuled the action cau ed by irritation f the pe ca dium dun g par centes In each ca e the skin as a stletize l vith ethyl cllor d a da troc r n nserte I not f r lat ally f om the lateral border of the pe ca dium

The nt oductio fth tr c rtl ou h the pa ietal pleura as I ays are mpanied by tha ter stic local pun Befo e a secon I th ust through the pe cardium as made time a allo edfr th p to subside Befo e much of the pe icardial flui l' rem el the pe ar hum y as r tatel by mea s f e h h s intro luced through the

1 sıl er c nnula

It is fund the tin three instance in buch the p rie rd m as punct ed at the le l of the fourth nte spac par as of expe nced he eas hen punctures rem d at the le el of the i fth or si th sp par as felt in the neck. This pa Capps attr but t irrit ton f the fibe s of the ph emc e e hich may e t ni ip ari o er the s rface of the fb sp carlum frash rt d sta ce The re Its of stat on of the er prea humoe ligthe h rt sem dt inic te that thi area nse stive t ja

Capp cli cal ob at ons m v be summa ized as follo

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#### SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Paterson D An Investigation into the Incidence of Hernia in Children 1 ch Ds Clild 927 ii 38

l aterson states that of the total number of pa tients entering the di pensary of the Hospital for Sick Children London in a period of a years o 8 per cent had some form of hernia. Seventy nine per cent of tho e with hernia were males Of 773 patients with simple inguinal hernia oo per cent were males. Of the 364 cases which were operated upon a recurrence developed in 4 (o 7 per cent) Of the 200 cases which were not operated upon the hernia di appeared in 185. Therefore of the 7/3 24 per cent dil not require operation spontaneous cure occurred in 3 per cent of the females but only in 22 per cent of the males. The spontaneous cures occurred usually before the first year of age but in some cases there were recurrences at interval up to the age of three years. In some ca es the neck of the sac underwent fibrosis but remained a potential sac Such a potential sac may later give rise to sudden hernia following exertion

Of the simple inguinal hernix, 62 per cent were on the right side oper cent were on the left side and 18 p r cent were bilateral In females the hernia as found on the right side in 4, per cent and on the

left ide in 35 per cent

Eight hernix were designated as strangulated but did not necessitate resection of the bowel. They were all in infants under two years of age

Of the 214 patients with an umbilical herma 53 per cent were males. One hundred and one of these herma disappeare I spontaneously the incidence of such lisappearance being about the same in males and females Both inguinal and umbilical hernix

vere pre ent in 30 males and r female

The treatment was (1) circumcision if there was any straining (2) the application of a rubber truss and (3) operation after one year. Forty six of the um. bilical hernix were repaired and 67 were not oper ated up n A large number of the latter became much smaller Since about balf of the umbilical hernize closed spontaneously operation is usually unneces ary for the condition before the tyelfth vear of age IAMES B BROWN M D

Buchbinder J R The Pre ention of Peritoneal Adhesions and Fneapsulation The Prehml nary Report of an Experimental Study of the Peritoneal Reaction to Hypertonic Dextrose Solution Sue Gine & Obil 112 d

According to the voluminous literature on perito nitis no fluid or solid foreign boly however bland or non irritating or sterile, can be placed in contact with the peritoneum without producing prompt encapsulation by adjacent loop of bowel or omen tum and no metho I bas been developed whereby adbetions between contiguous inflamed loops of

boy el and omentum can be prevented

The experimental work of Yates which was car ried out in 190, and is largely responsible for the present day attitude regarding peritoneal drainage showed that relative encapsulation due to the precipitation of fibrin is immediate and absolute encap sulation occur in less than six hours Such bland substances as vascline paraffin oil olive oil pepto nized milk and egg albumen not only fail to prevent adhesions but excite their formation by the produc tion of a chemical peritonitis

When a hypertonic solution 1 brought into con tact with the peritoneum it produce a transulate Experiments performed by Buchbinder with a 20 per cent solution of dextro e showed that shen such a transudate is produce i in sufficient amounts it limits or entirely prevents the formation of fibrin Under such conditions Buchbinder as able to keep rubber drains of various types unencap ulate I and communicating with the free peritoneum for two an l three consecutive days. He attributes the preven tion of fibrin formation and sub equent encapsula tion to the great dilution of the peritoneal exudate

In another series of experiments performed by Buchbinder tincture of iodine was u ed to produce a chemical peritonitis. The iodine wa applied to the peritoneal surface of 10 or 1 in of the mall bowel It uniformly produced massive inflammatory a like sions between almost all of the loops of small bowel and a violent but sterile peritonitis. The inflam matory reaction spread to the omentum hich com pletely enveloped the infiltrated bo el to form a tumor that was readily palpable through the ab dominal wall. When a transudate was maintained for twenty four hour by means of repeated injections of dextro e solution adbesions between the contiguous inflame I loops failed to occur

The author calls attention to the fact that the method is associated with the langer of erious dehydration which in some cases may prove fatal This danger is remote however if the maximum safe dose of the 20 per cent solution-one fiftieth of the body weight-is not exceeded Normal saline olution hould be admini tered intravenou ly

The peritoneum is only slightly damaged. Hi tologically a mild erou peritoritis i produced Glyco uria is of uniform occurrence but taxation of sugar tolerance a not a source of danger and can be controlled by the administration of insulin. In the cases of ome of the dors experimented upon no barm resulted when the abdomen was filled with fluid and there was a constant glyco uria for a veel

In conclus on the author state that if this experimental work is carrid out farther ith bacte all peritorities it may impro e the treatment of severe diffuse o spreading pe toniti by facilitat g drain age for the removal of a vist am unt of touc equidat

# Johnson II L Observ t ons on the Prevent n of Postoperati e Pe tonit nd Abdom nal Adhesio s S g G \*+Ob t 9 ! 6

The author crees Deave 8 cl. stheatron of adhe son Deaver goops addres one into the congenital and acquired types d subd des those of the acquired type into the interest of the acquired type into the interest of the states that diamnately addressions may be the states that diamnately addressions may be the states that diamnately addressions and better a state as the states that the states that diamnately addressions and the states are states as the states of the states that diamnately addressions that the states are the states and the states are the states are the states and the states are the states and the states are the states are the states and the states are the state

Among the cruses of abd minal riche ions mention d by Deav r are collections f bill d the per foneal cait; i ceral pose e and the trauma of sutu. It is trume its and poor operative thing up the able to the control to an inflam to y process I characterized by a of eff on c taning physics which is a different process in the set of the pertioneum becomes overel by a fee leaver fibrin which is control to the set und protect e and in the absence of a see period to the service of the set of the s

The autho c tes McCallium s explanati n of the uncloss or of gestion f the adhesions by a p o te lytic ferment present in the effusion. Oppoint, this ferment he is for mid the nin nym limit g the act on of the leue protesse. These ferme t re n rmills t present rithin the leucocytes and a dithin the ning to the ning to the constraint of the leucocytes these become I berated t act on ur round git es. The efore it he prote lytic enzyme prepond at I qued cition and ab cess i mation result but if the antie whis in e cess ith longefaction 1 checked.

Many substances have been u ed to aid the cact on Pecentiva I panes sur co kubota suc ceded c s g the esolution f tifically podu ed adde s by the e of a r o oo sol tion of papain a ferment form the unripe fruit of the p pay tee which is acti n neutral and alkaline

Joh son as led to n est gate the bological prevention of abdominal addes as by reports from G mary. In a c. sa ear ection to place ta prevo a patient ho as in need of blood t a nafus on he left all of the blood an I am out fluid r leased by the op attom thre the abdomen red the pel. The p tent mad a perfect rec ey. If has subsequently only the provided in the pel of the same proced recommended in the second of the same and the pel of the same proced recommended in the pel of the same and the sa

Even hen definite infection was present the post operati e course as normal and without the for mation of adhesions

In exper mental ork do e to dete mine the effect of amn otic fluid in the abdomen of the guinea p follo ing e ere trauma to the intestine and peri to cum ery satisfacto y result as egards to the prevent on of adhesions were brain d

Joh son da s the following concl sions Amn tic fl id is a log cal s betance to employ

f r the present on of adhes ns nce one fits the funct o in its natural location the prevent on of adhesions bet een the minoric sac and the fiture.

This fluid ste 1 ed by the Berkefeld filter meth d is safe to use in the abdom all c v tv aft operation

3 It act on 1 the p t neal cavity is the imme diate p odu tion of protect: lave of fibrin on the per t neal su faces and a mode ate l cal leuco cit sis followed by complete resol ti of the bir nous d posit leaving o permanent injury to the se o surface

4 It prevents protitis by its quick action is trup fib ous all of dele scand stim lating in de alel cal leucocy to It prevents achies appaintly by stim lating the rapid resolution fit help the crudant through tha can not protectly the first by the true and ele to the local leucocytis.

Labo atory and cln cal beer att ns have pro ed bey nl any es able doubt that the pes f thi fluid n the abd mm alc at tha fler op t n has a dist t beneficial act n g st the de elopment of pet tits a d the f rm ti of adhes o d tith ut a delete eff ct

HRM NO MCPEET MD

#### GASTRO INTESTINAL TRACT

Mutie F and Po I P Md 1 C e of G te u UI of tle St m hunde Radii ig al C ntol (Gé m d l so tôl d l gq d l e d l tm ) P M I o 7 x 9

Th term craterou (Cruve liner) is piled to ule s which show an \( \) a vimage that p tailly or compiletly trave ses the mucle and p oduces a pet teals self g Ad werten to the man and poduces a tached to the storn che bondy a narr want and be difficult to bo with the \( \) ray Fale projections \( \) by \( \) the did to not retto or defo mat on \( \) by \( \) to \( \) the size of not retto or defo mat on to \( \) day and \( \) and \( \) and \( \) to \( \) and \( \) to \( \) the lesser cut attree \( \) Ulcers in the \( \) py \( \) to \(\) to \( \) t

formities are noted more often than typical cavity shadows and the therapeutic progress is difficult to

follow roentgenologically

The authors report twelve cases of cavernous ulcers of the lesser curvature with \ ray images ranging from a spur to a swollen ampulla and varving ulcerations which just penetrated the muscle or burrowed to or destroyed the perstoneum so that the base was formed by a sclerolipomatous placque or an adjacent organ. In seven cases there were spurs or cups and in five true niches of Haudek Some of the ulcers emptied rapidly Others filled spontaneously or did not fill according to the rela tion of the mouth to the folds or were revealed by a suspended spot visible after evacuation of the stomach A shadow was often seen on the greater curvature in relation to the lesion. The ulcers had produced the classical symptoms and had existed for months or many years

The treatment consisted in rest a lactofarmous duet and the administration of a 70 per cent bismuth mixture morning and evening for many months and offrom 1071 mgm of atropine per day. When possible the atropine was given subcutane ously. The authors prescribe knoin bicarbonate of soda or the Sippey method only to relieve pain I actofarmous foods are disinfected by cooking and combat the congestion of the gastritis and the ulcers. The bismuth protects the mucous from the mucous flow and is bactericidal antisecretory and any

spasmodic (hypovagotonizing)

In the cases reviewed the improvement was usually very rapid. The subjective amelioration clo ely paralleled the objective change shown by the \ ray Generally in ten days the \ ray image was notably modified a niche was reduced to an ampulliform projection and a spur was thinned and Soon the cavernous image looked like a little cone which was lifting the wall or like a Roentgenograms comma hanging from the wall revealed persistent deformities maccessible to direct Healing was considered complete examination when all trace of the cavity was gone. A segmentary rigidity of the lesser curvature at the site of the lesion occasionally persisted for a time as indicated by inability to pleat the stomach wall and by nonpropagation of waves on the diseased area latter relates only to the lower half because peristal tic waves normally fail in the upper third of the lesser curvature

The ulcer evolution varied with the seventy of the lesion and diverse associated factors such as parietal infection ordern and neurovascular trouble. Healing was completed in from with weeks to three or six months or an average of two months. Feisly, his reported rapid results in cavernous ulcers of the les er curvature obtained with insulin which clevate the blood ilkales. From the stand point of the direct gastric action the author consider the use of insulin in gastric ulcer is accompanied by intense vagus irritation ulcer is accompanied by intense vagus irritation.

Emborn and Damade have obtained rapid amelio ration and cure in deforming duodenogastric ulcers by duodenal feedings. Moutier and Porcher streatment reheves the ulcers equally quickly and in many eases gives clinical and roentgenological healing in from five to eight weeks. However duodenal feedings are indispensible in cases requiring aboutieg eastire rest.

The authors note that civernous ulcers treated medically recover with extreme ease at times an! they emphasize the advisability of the prolonged combined use of bismuth and atropine which surpasses all other ulcer treatments and is especially superior to the use of complex alkalic certain ulcers of the lesser curvature resist medical After simple gastro enterostomy authors have often noted the regression of the caver nous images with the rapidity and progres obtaine ! by medical therapy alone Their treatment is most effective in ulcers at a distance from the pylorus For pyloric or duodenal ulcers surgery is preferable to purely medical therapy. To the argument that a mucus plug or a clot may give deceptive \ ray evidence of cicatrization of a cavernou ulcer the authors state that the ulcers in which progressive regression is followed regularly are not ulcers close l accidentally and temporarily also that the roentgen ological and clinical healing are parallel. The ulcer defect occurs in tissues not only sclerou but also very edematou especially during the inflammatory attack Hence the subsidence of the interstitud inflammation and the connective ti suc proliferation of the base with the swelling of the walls an I epithe hat growth on the surface quickly reduce the lepth of the cavity which then only awaits total effacement and cicatrization

Ulcer recurrences evolving in long periods are evidenced by giant ulcers. In the case of an elderly patient the authors observed the return of ulcers impromise with re appearance of a cavernous image after a chinical cure of eighteen months durition. They believe that in addition to the continuous ulcers with interrupted clinical manifestrations new ulcers often form on the electricy of a former ulcer or in some other area not yet eroded. They consider that gisting ulcers evolve much more rapidly than was formerly believed. I ven craterous ulcers may be old in only a few months and may become creatized or perforate in a few weeks.

New gastric symptoms developing many months after the clinical and roentgenological healing of an ulcer may be due to persistent ptosis gastriti pergastritis or neuriti

WAITER C BURKET M D

Nordmann O Corrective Surgery Following Unsuccessful Operations for Ulcer (k reck tung eratuonen nach erf Iglo en Ulcu perati nen)

Zentr libi f Cl 1927 h 1893

Nordmann says that the indications for a new operation in the cases of patients previously operated upon for gastric ulcer depend upon the sever ty of the symptoms. A a rule the most important symptom is ntolerable pain which is usually located in the mesogast ium but often rad arts to the back nd occasionally all o to the shoulder. Peptic uler of the jejunum can usually be sup set of the or serainty. Yaw examinat on often leaves the dagnot expan in doubt.

Seco day cor ective ope ations are f equently postponed too long becaue of 1 ficulty in d ter ming the propritime for sugget interference. This difficulty is due to the fact that jers no suffering form ultimate until face woost immering form ultimate the construction.

ment

Before a secondary operation 1 co sidere! It 1 cessay to elim nate all other pathological e dit in so f th abd men especially append citi and to holocystitus. When th has been accomplished ca eful ulcer 1 eatim t should be arrid out hether the e 1, hippers list or anaed 4ty. This applies alls to case this amption following extensive essection. Surgery 1 and it don't when medical treatments it is to give chef. The type ather this the member of persus operation is should be enside ed in dituming the nices by franches laparatorom. Where a all the operation hould be made so nin a pick before the top the control of the

In a seres f 300 gastre perat on s Nordman per tormel a sec mala y operation I 3 are the party reration defaille in s n case it vas a chilect tect my cat mple viin of an ulcer c view retended to the stomen hir 15 c e a postern ret chieg trentero tomy i ca a gat entro tomy with closur f the pul ru i ne ip te ral te trassio enter time and case etto

eol c gast o e iter tomy ith turing of the lee e a gato tero The rrecti e ope ti tmyingcae ( thubeqeteect n) nl ith pre reat not the it ng gi tro rectom enterostomy n 4 n e gat c e ct n for f pticulcer that tula in 5 e ep nt n f the th ut I th castr ter st m ugtv in 4 cae eprto of the g tr t t m d the 1 frti Bill th II operat n in a ca the gast ent tomy a I the B liroth I per ton ın 8 a

Th realts f th r ti D 1110 ntr tm sgreol tm r the Thagat po ary relef in f the ac g tic eet n as ne e ary l te Th 4 pylo ctome prese ton of the gat et stome ere fl loselli cure Aft r the oper t frg trocol c fist I the tare colmare telal the po ter or gat e ter st my eplace! l a ante r or ne A B llroth I patinp f med I ter fo peptic ulc has no b n f ll lbv f edom f om rec e ce for three e bept tion f the gr tro ente tomy ithret at on f the n malanat my e ult lina cu e every n ta ce bec use the pa tients had had o ulcer origin Ils and the ope ton has been performed without the proper adicat a

Of the 11 patients who were subjected to a pr mary typical resection all ere completely cured

In the 30 corrective operations performe! upon 27 pat ents there ver three deaths due respect ie ly to peritomit pe forated duodern! ulcer a f transcription of the second of the second

A e idual gastric ulcer hich had ot been n fluenced bit the primary operation vas found 16 times nd a peptie ulcer t the ste of the gastro ente o tomy 15 time. In 6 cases no definite ulcer as discove ed In only 1 case was there a tre ga tro. In fistula 111 fthe secondarly removed D to so of st mach show das we egastris.

The findings in this series of cases and cate that many of the fir t operations very done without the proper indicatio s Gastro ente ostomy shoul? n e be perf med in eases of fresh ulce It indic ted only to callous ulcer ste o s and duo ten I ulcer h h c nnot he resected In uch ca es it giv g od esults 5 mple suturi g of the ulcer I lee e resection gi e poor result From the p int f the pe manency of the esult the Bill oth If method do s not compare th the Bliroth I method pro del the pylorus a c m ol tely re-ected in the latte. Recurrence is best pre niel by evie 1 o esect on but there 15 no ce tain method of pre enting peptic ulcer of the pejunum I sec da y per t ns i lliati e pro ce lu s h ul i be avoide l if pos ble The Billroth I meth I is the peratio of choice. In ea es of luo len I ulcer heh eann t be e ecte i a Peschel op ratio may b pe fo m d When there is no demon t able pept e ulce ex lust n of the pvl ru at least h uld be I n St ll bett r is it to remo e the g st o ente o tomy In case of p pt e ulcer fol loving the Bill oth II ope ation the lo p of small tonel hould be fe d and if posible an anastom 1 made bet cen the duod um a d the seg ment of t mach 1 cases of peptic ulc rill wing a Bill th I operation another reset n th careful removal of mnn ts of the pylo u is t dicate f

The t in f the pecime obtained in the ecor ecti e pe ato s v surp ing sthe pathological findings e sight hence trasted with the sumpt ms. The vmptom vee probably due to gas t t di tort on of the stomach and spasm L (Z)

SI rt A R V mitling Afte Ope ti n on the Stoma f P t 1/1 J 0 7 1 35

Shot as that ming hich beg a lay or to after operation on the st mach a of u common In ome ca ta due to the anæth to to to blood in the stom ch and ll soo stop

Repeated vomiting that lasts for days and en dangers life may be due to a vicious circle following an improperly done gastro enterostomy. Lither the loop of bowel leading to the stomach is too long or there, is an acute kink in the bowel at the point of anastomosis.

Vomiting may be due also to infection of the perioneum at the line of suture or to adhesions of the suture line. Short believes that the presence of adhesions between the anterior and posterior suture line of the mucosa is one of the common causes of per istent vomiting after gastric operations. In this type of vomiting there is no bile in the vomities none can enter the stomach. I'vo cases of this kind are cited.

To prevent the occurrence of adhesions Short inserts a corrugated rubber dam between the anterior and posterior sutured mucosa

I I DN ARD BISHKOW M D

Ginzburg L and Beller A J Non Metallie Per forating Intestinal Foreign Bodies 4m Sug 927 lvvv 1 9 8

Perforation by small non metallic foreign bodies such as fish bones chicken bones or slivers of wood occurs most frequently in the large intestine espe

ently at the flexures and in the excum
The condition is more frequent than it is generally
believed to be Of the twelve proved cases occurring
at the Mount Stani Hospital New York, within the
last ten years nine were discovered in the last three
vears. The difficulties in recognition are due to the
lack, of a leading history, failure to visualize this
type of foreign body by the Yray and the wide
variety of clinical manifestations.

The perforation may manifest itself in various ways. The most common signs and those of most importance to the surgeon are symptoms of acute peritoritis localized infra abdominal abscesses intra abdominal usually pericolonic inflammatory tumors tumor of the abdominal wall and inflammation and obstruction in a hernial sac.

In pericolonic tumors which do not invade the intestinal lumen or cause stenosis the possibility that the mass is a foreign body tumor should be considered. Recognition of this condition will decide the surgical indication and render a hazardous operation unnecessary since removal of the foreign body and drainage will suffice to effect a cure

JOHN J MALONIN M D

Puccinelli V Tumors of the Small Intestine (Tumor dell ntest n tenue) Ir I at I di chi 19 7 XVIII 273

This article is based on twenty three tumors of the small intestine seven carcinomart two sur comital even tumors of lymphatic tissue which the author classifies as round cell lymphosyccomital one fibroma and six tumors of doubtful interpretation one being found in a case of so called intestinal pneumatosis. The eneroplasms were discovered in the

course of 24 000 operations. In the same series about 500 tumors of the stomach and 450 tumors of the colon and rectum were found.

Circinomata are frequent in the stomach colon and rectum but very rare in the small intestine Sarcomata though rare as compared with carei nomita are more frequent in the small intestine than to the rest of the digestive tract.

A clinical diagnosis of the different forms of tumor of the small intestine is impossible. Intestinal neo plasms generally do not cause as imptoms until some late complication develops such as stenosis occlusion invagination or perforation. Histological diagnosis of the different forms of carcinomata can be made. There has been a great deal of discussion of the nature of the tumors of lymphatic tissue in the small intestine but the author classifies such grow this as true tumors and calls them. It implie arcomatic

The chief value of this irricle lies in the detailed histological descriptions of the tumors and the excellent anatomical and histological illustrations

AUDRIY ( MORGAN M D

Kes Aberg & Contribution to the Knowledge of

Myomata in the Small Intestine let el ri g Sea id 927 km 61

A mm sixty five years of age had noticed a swelling in his abdomen one month before his id mission to the hospital but he had otherwise been free from symptoms except those due to sluggish ness of the bowels

Examination revealed a smooth and elistic and dominal tumor the ize of a chill's head which extended from slightly above the umbilicus almost down to the symphysis. The Weber test was found positive in the faces and there was marked second ary anamia.

At laparotoms the tumor was discovered to be so intimately connected with a loop of the small intestine that it was impossible to free it. The intestine was therefore resected. The tumor weighed nearly 1280 gm and was of a type intermediate between a sub-erous and a sub-mucous growth as almost one fourth of it was within the intestinal lumen and about three fourths was outside the intestinal will. The microscopic picture was that of altaricellular fibromy oma which probably had arisen from the innermost layer of the tunical mucularis. In the available literature the author has found the reports of even similar cases.

Defrez L Carcinoma of the Small Intestine Four Personal Cases (Cane r de lint tin grêle Ountre be attense per nn lies) J d cl 4 S beig de lir 92 9

Carcinomy of the small intestine is rare. Hintz in 791 collected the records of fifty two ca's eight of which were autopsy reports. He studied the condition thoroughly and concluded that the most frequent site of this tumor are the jeginum and the terminal ileum. The patients are seen by the surgeon because of obstruction's impattoms. Ys lymphatic e tension i slow there is sufficient time for effic clous treatment

Delrez has not made a statistical study of the condition but reports a lettil four personal cales

making sh rt comments o each

Cise Care noma ith epith lal pea is a the leum. The patient a ma of surt two years had be n treated if r and app re the had ecover if from pp tu ducer abut the even a pea up. To four nonth he had been been generally in the patient of the patient and been abdomial part the had time r junted morphile. There had it name lead too of some the camp nation and contenencope tudes e e negative. The tumor a lead to credit lity arotomy and the bewelve credit The patient is 1 the emonths late from an epgatic to nor No aut parts.

Case Ste gcli Irclell c ctom of the pequum Ther it it a oman fifth se veats who had i out when m glinealth had suffere I from all of m al pain unlelet the past three r four m the lung helt in hallot conside able eight I the past vol. he had mitel it time. O earm at on a tum was felt

to the lift of tl mblc a d hle reritals a not lifter v n batu ti of th colon although t le cant vt laprotom a pe frat lil lulce f unit th pe for at had fence libs the ome tu vginni re discove el libs fitted el n tidando

discovered the fitted let a telland an to noss made. The tell all earlings the lthin month after the pet n

Case 3. C. in m. I the lu fenoje) al fle e. A oman six verv of a, b d b. I gue gs tr and pigrastra listes fr four month. V. mil pigrastra is tes fr four month. V. mil pigrastra m. s. me land thu ught to be no epilocide intil tulog al. am nati r. al. list to be an a lenocar nom. I h. mpt m. r. n. tel evel by the op ration and ultim tely vom ting occur el. O. e. min ti to month affert the irriperation the pigratr m. s. n. fo. I to hive recurred A. and hanter stace as sell un the epigrastrum but a. ho. ocentgenologiall n. to affect the t. mach. o. d. le um. D. I to the urgate c. N. as finding n. d. ag. s. f. list uet on high up the small bo el. a. m. le ndlapa of m. a. per frime! V. ca. noma of th. lode. pigu. d'evure it his merous glandular metat e.

iound Du den jeju t m affo ded the patient elef until her death fr m a cite and later hand one half months lat Wolh of pecul note in this case ere the all umble limet stathe eggatie root teen tay e denc and the rief

affor led by the n t mo

Case 4 Care oma f the reju um \ oman f this four very f ag h lh d s mptom of init s tin 1 obstruction fo \ mh r l mo th \ There a nod tent on an! c on train r lh abs ce of vomit g i d cate l th t the \ a b lo the due lemum o reju m \ lu tmo a felt ccasi all the engit trum \ h b g of p tible stenosi of the site m \ s m l lh r l

genologist favored a diagnosis of pe iduodenal adhe ons but could not localize the lesion. An annular steno ng tumor f the jejunum v as found about 40

cm below the duo lenojejunal fic ure Resection as accomplished and an anastomos made No gland were found The phantom tumor was thought to be jue to contract ons of the hyper trophie I inte the provingal to the tumor

MICIELI MASON MD

### C sde man W J Duodenal D e tic 1 C d

D oderal di criscula vere fir t describe l'in 1710 I f t lemon t ated by means of the roentgen ra n 19 2

The c nd too t u wills f und late in I fe and pp ir to be much me ommo in females than m le The l ticula var in size from that of a pea t that of a small ora ge Over hilf of them ceu in the second portion of the duode um. Some of the lutter may be dilatations of the ampulla of Ver

Du d all tert cults are fale d'vertreult as they lot contant all fithe coat fithe bove! The mu a disubmucos viele en that the mu cult cat viele la fitte fit

of the gan 1 (3) the e, on of the ampulla of Vater h ether no eatheduct are developed from load natter h ether no eatheduct are developed from load natter if the volutile that the nearly 1 as soct in the me ent 1 at of the duode unwhere the nucular filt each ed by the passage of the estellar to the ment of the most open and produce amplitude to the tructor du to a me go the and they he leen I me levper mentally by died gight bo it that

S call I tact n diverticula die to adhe o rs ftig form leer or gill blidder d sease are mot l que tin the fist po tion of the duodenum

The patholog cal ha ges th t may occur 1 duo lenal 1 ert cula are mil 1 to tho e occur in ele here n the dig sit et tact They const in nace or ch once 1 flammatio perfo ation and secondary changes 1 the pane eas and hier Ca moma ati 1 gi du denal di et cula is appare thy rare

D de al d erti ul frequently do ot produce s mptom When they do the p ctu e usually so g e and atyp cal that the da cannot be

made chi cally

The liagnosis s usually made during a cent g n ray e amination \ cri, careful and epe the fit oros prex m nation eoften nec s rt. Th I fife ent al d ag is 1 u ll\ rt d fifeult except in ca cs of premetr t g ulcers Operation is advisable in well selected cases in which the diverticulum appears to be the cause of symptoms which are severe enough to warrant the risk and other methods of treatment have failed Diverticula arising from the interior surface of the duodenum are easily approached but those spring ing from the posterior surface are often closely related to the princreas and are difficult to operate upon. The operation of choice is excision in again tion of the sac and gastro enterostom.

CYRIL J GLASPEL M D

Wilkie D P D Duodenal Ulcer in the Female

Statistics from the Royal Infirmary of Edinburg prove that duodenal ulcer is a much more common lesion today than it was twenty years ago

Duodenal ulcer is much more common than gas tric ulcer in both sexes. It occurs at all ages and is not as rare among females as is generally believed

In 35 per cent of the cases of duodenal ulcer in femules the history and symptoms were not classical Platulence associated with attacks of epigastric pair not related to eating was common and often sugsested cholecytutis. Wilke terms this clinical picture the cholecystodiuodenal syndrome. The absence of the typical hunger puns in the female is best explained by the habit of women engaged in household duttes of taking food between meals. The male with fixed hours for work has longer fasts and less opportunity to ward off hunger pair.

Occasionally a diagnosis of cholecy stitis with stone has been changed to that of duodenal ulere by means of cholecy stography combined with the barium meal test. In this procedure a preliminary Taray examination of the gall bladder is followed by the intravenous injection of tetra iodophenolphthilein. On the following day a second roentgenogram is made of the gall bladder area. A barium meal is then given and a roentgenogram of the stomach and duodenium is made. A little later a fatty meal is given and two hours later a final roentgenogram grande of the gall bladder. By means of these four films valuable diagnostic aid may be obtained.

In the case of the female the relatively mobile tuodenum makes gastroduodenostomy an easy and sife operation and this or gastrojejunostomy is the operation of choice. When there is an associated gastric ulcer evision of the ulcer combined with gastro enterostomy is usually most satisfactor. The appendix was found to be diseased and was removed in approximately one third of the cases. In cases of simple ulcer resection of either the stomach or duodenum or both is not necessary.

CYRIL I CLY PET M D

Koch J A Case of Retroperitoneal Hæmatoma After Duodenal Resection (I Fall on retro perito e le i Hematom nach Du len Ire kton) i ch f kl i Clr 19 7 e li 82

In the case of a man thirty one years of age the first part of the duodenum and the prepyloric part

of the stomach were resected for a callous crater shaped ulcer between 4 and 5 cm from the pylorus which had perforated into the pancreas. The patient had had 5 ymptoms of duodenal ulcer for four years. The base of the ulcer was not removed being merely cauterized. The rest of the duodenum involved was resected and the stump covered by the pancreas and its capsule. It was necessary to do a Billroth II with a Braun entero anastomosis because the descending part of the duodenum could not be sufficiently mobilized.

Before the operation was finished a retroperi toneal hæmatoma was noticed but was regarded as of no consequence because it failed to become larger while it was watched. Five hours after the operation the patient suddenly became restless markedly an emic and pulseless but later his condition im proved without operative interference. Five days later he suddenly developed chills a high fever and pain under the right costal margin where a tumor the size of a fetal head could be pulpated. Three days later about a liter of coagulated blood was evacuated from this tumor through the operative inci ion. Despite drainage for a day a fist sized fluctuating mass then developed in the left inguinal region and the temperature rose to 30 degrees C Drainage evacuated half a liter of coagulated blood from the retroperationeal space

Koch believes that the source of the hæmorrhage was a venous plevus in the seroor free posterior will of the duodenum where tearing readily causes bleeding which is difficult to stop. The brittleness of the blood vessels in chronic inflammations must also be considered as an etological factor.

BERGIMANN (Z)

Schmieden V and Westhues II. The Clinnerl Aspects and Pathology of Poly is of the Colon and Their Clinical and Pathologico Antomical Relationship to Carctinoma of the Colon (/u klinik und lathologie de Dickdarmpolyn und deren klinischen und 1 tholo sch nationischen Beziehungen zum Dickd mearteninn) D utsche Zisch f Chris 19, 7 cm 1

Polyps of the colon are divided by the authors into three groups according to their histogenesis and malignancy. Those of the third group are characterized as precancerous because they nearly always become true carcinomata and often do so before they have reached the size of a pea. The transition from the typical slender regular polyp cells to a precancerous condition occurs on the whole surface of these polyps. The regular arrangement disappears the cells become plumper and the nuclei become irregular in position and shape. The e findings are of decive importance in the examination of biopsymaterial. Not alone the character of these cell but also the whole picture is characteristic of the complex precaprous state.

The authors correlate the various histological find ings with the ethology diagnosis therapy and prognosis. They call attention to the fact that in diffuse

lymphatic e tens on a slow there is sufficent time for eff cac ous t eatment

Delrez has not made a stat t cal study of the con dition but reports 1 letail four person I cases

making sh t comments on each Case 1 Carcinoma the ep thelial pearls in the ileum. The p tient a min of sixty t ove hall been treated for and app e tly had recoved.

from pept culcer about three years prevousl four month he hal bee having cies of se ere abdom nal pain which at time required norph e There hal been mo lerate lo s of eight Ph ical e ami ation and oentgen scopic study e e ega t e The tumor a liscove el at lap otom an l the bo el re cte ! The patient le I three month l ter from an engastric tume. No a top v

Case ing cyl pdrical cell care oma of the jejunum. The patient a man f fifty e en years ho h l previously been n good health h 1 suffere I f om abd minal p an I c I c for the past three or fou month luring h h time she h l lost conside able v ght In the past t weeks she h 1 vomite | t t mes On exam n tion a tum or w s felt to the l ft of th umbilious a d sible peri talsis as note! The a n ob truction of the col although t 1 e cat At Inparet my a ne forate lieiu al ille as found the perforation had been losed by tho mentum. No gl ds ee d scovered The affected b la esectel d'un anastomo is m le The patie t as till al in gool health n e months after the operation

Case 3 C rein ma of the duo leno jural fi tre and epig st ic I tress f four month egiga trie m ss as emov d nith ght t be an ep plocele unt li tological examinat o re eal 1 it to be an adenoca cinoma. The symptoms ere of relieved by the operation and ult mately a miting occurred On vamin tion to month after th first oneration the enigast c ma as found to h ve recurred An in lefinite es stance as felt in the ep gastrium but vas shovn oentgenolog il not to affect the | mach or du denum De pt the negati e \ ray fi ling a d agnosis of obstruct n high ut in the small bowel as ma le and laparotoms as performed A ca cinom of the duoden jei nal flexure ith numerous glandular metastase found Duodenojejunostom afforded the pat ent relief until her death from asct and te s five and one half months late Worthy of spec 1 note in this case e e the earl umbilical metasta s the negative oentgen rav e d e a d the relief afforded by the anast mo ;

Case 4 Carci oma f the j num A oman fifty four ve s of age h d had symptom fintes tinal obstruct on for a number of month vas no d tent on an in c n tipat n Th absence of vomiti g indicated that the le i as b lo the luo lenum or jeju m An lusi e tumor s felt occasionally n the ep ga trum 1 lagno thle stenost of the leum made Th r nt

genolo t favored a d agnos s of periduodenal adhe to s but could ot localize the les on An annular stenos g tumor of the sejunum was found about 40 cm below the duode ojeju al fle ure Resection wa accomplished and in anastomos s made. No glands were found. The phantom tumor was thought to be 1 e to contract ons of the hyper troph ed intestine p oximal to the tumo

M H ELI M M D

C vde mai W J D odenal Diet ul C 455

D ode live to la erefret de cribed in 1710 a I fi t dem n t ated b means of the roentgen ra n 10

Tle o litio u ually found late in life a d to be m ch m e common in f m les than i 3DD male The liv rti ula vary in si e from that of a p a to that of a mall ora ge Over half of them the econd po tion of the du den m Som f the latt r may be diatation of the ampulla

\ ter Du denal I ert cula are fal e l ve ticula as t lo not c tun II of the conts of the bo el nuco 1 a l'ubmucosa are pre ent but the mu c at elack g Ih vare in fact true hern of the muc a through the mu cula coat g t the tleors m st generally accept d eith I rectly o directly congential ndp olucing amptoms! te in life Th th vare co g nital supportelly th f has ben km n tated in (1) the e

ers v u g chill en i assocati n other o gan and (3) the reg on Vate where the pancreatic ducts ar upported b the f ctsth t they r on the me enteric le of the d

muscul all eake ed by t el they cem to appear a I te n life they have been f obst u tion lue to a nev been fo me lexpe ime tal th ate

S called traction d re ult g from ulce or frequ tin the first p

The p tholog cal g de al diverticula a whe e in the digest chr ic infl changes in the r ing in duo lena

Du denal d sympt ms 1 vague and made el nic Th dia

?

gen y c fluc 700 diff entr in c ses

sided syndrome Follow up medical therapy should be used if possible When operation is performed in cases of suspected chronic appendicitis—in adequate exposure should be made. The appendix should be removed even if it is apparently healthy as it may contain the slight or chronic lesions which some sur goons (among them Okynezye) consider to be the initial factor in the right sided syndrome. Any distinct utherent binds—especially bands from the lower end of the small intestine and the right eolic angle a Lane kink or a Jackson membrane—should be freed.

If only a thin dilated atomic exceeding is found fixation and plicature should be avoided. In such early cases without organic parietal lesions hut with ptosis and distinct dilatation of all of the right large intestine from faulty attachment slight barium retardation and intermittent painful crises of caecal distention only the Duval (regoire operation is justifiable Tixation usually gives merely temporary relief and is followed by new adhesions which may produce further symptoms. It is not physiologically correct to plicate or to fix an organ such as the execocolon which must contract constantly and freely. The 's ray reveals that after plicatures and fixations the right large intestine has irregular dentate borders and is deformed and immobile. If chronic appendicitis is associated with carcal stasis of more than thirty hours typhlocolitis and second ary tight dense pericolic adhesions if the patient has already been operated upon unsuccessfully and if medical treatment has proved either insufficient or impossible a right colectomy should be done before the development of more or less intense parie tal lesions of ulcerous or perforating typhlocolitis

Operation is contra indicated when the patient is psychopathic neurastheme or old or is suffering from general ptosis of which the syndrome of the right that fossa is a part. Total colectomy is a set ous operation and is justified only in the presence of total megacolon with total stasis—a rare lesion—which is manifestly organic and not functional. For general and functional stasis and constitution total colectomy has neither clinical nor experimental justification.

Walter C Burket M D

Coyen J R and Caorsi L J Tuberculosis of the Retrocecal Glinds Tuberculous Peri appendicitis (Tub reul 1 de 1 g nghos retre ce ales pe pend itts tubercul 1) K v Soc de m d l t v 1 S c d t l r927 n 29

Primary tuberculo is of the mesocohe and mesen tene glands is not frequent. The authors lesernbe a case in a man of fifty years. About thirty years before the prittent was admitted to the hospital. Be began to have pain in the pine. This was followed by scolo is which looks increased. About two weeks before he almission he began to have full pain in the abdomen which finally became localized in the right litric fo sa. He state it that he had not suffered from nau et or vomiting and thought he had had only sluth fever. We the time of his ad

mission to the hospital the pain was intense and continuous

Examination showed scolosis with the concavity to the left. No pain was felt on percussion of the spinous processes or on active or passive movement There was pulsation in the veins of the neck, and the cervical glands were slightly enlarged. No signs of pulmonary tuberculosis were found There was diffuse pain in the right iliac fossa without muscle rigidity I alpation revealed a long tumor parallel with Poupart's ligament and extending from four fingers breadth below the costal arch to two fingers breadth above the middle of Poupart's ligament This tumor was hard and irregular and painful on pressure. It did not move with respiration or a change of position and could be moved only slight When the colon and cacum were distended it disappeared and could be d monstrated only by

Operation revealed fixation of the execum in the inght iliac fossa and induration of its posterior wall. The execum was exteriorized and the appendix amputated near its base. In the indurated portion of the posterior wall of the execum there were caseous fragments. The caseous tissue was removed and the rest of the appendix resected. A drainage tube was then introduced. Uneventful recovery ensued

deep prinction Roentgen examination showed that

it was back of and below the colon. A diagnosis of

retroczecal tuberculous adenitis was made

In chrome appendictis there may be acute at tacks resembling this patient's illness. Tuberculous retroexeally mphadentits is often confused with appendictis and sometimes a diagnosis before operation is impossible. In the case reported the authors made the diagnosis from the periodicity of the pain with attacks which receded spontaneously, the cx amination of the blood which showed anomia and no hyperleucocytosi. the hard only slightly move able and slightly painful tumor and the findings of specific tests including the Hutinel Bard test which showed tuberculosis. Nevertheless even with such evilence only a probable diagnosis can be made.

Trotter W The Symptomatology and Diagnosis of Chronic Appendicitis Brit W J 927 11 063

Dowden J W Diagnostic Difficulties in Chronic Appendicitis Bril V J 9 7 1 006

Bonney V Gynecological Considerations in Chronic Appendicitis B i V J 1927 11 006

Walton A J The Eurology and Sequels of Chronic

927 11 1 68

Appendicitis Brit M J

TROTTER The diagnosis of chronic appendiciti is added by local signs such as right fibre pinn ten derness increased resistance and increased tension of the right rectus muscle. A definite difference in the tension of the two rectu i probably the most trustworthy sign. Considerable relinice is to be placed on a sudden momentary sharp stabling pinn in the appendix region. This often occurs while the patient is walking. In patients who have given this needle pain complaint the appendix at

polyposis of the colon bionsy of small polyps affor l mo e in ght nto the malignancy of the condit on th n t sue from la ger spec men Polyposis is o e f the d e e h ch affor la excellent oppor tunity for the study of the or gin of cancir. The autho sh co v ncingl th t ab ut 6 pe cent of all ca c nomata f the colon and ectum arise f om polyp Ih most mport te dence is fu nishe ib p lyps ceid ntally h co ere i in autopsy mate ial. The p lyp a ft sensignificant that they a over l ked n I rheial e am nati Even srcc mens | g a | jen may often be u not cel Iol ps which had I cen pre ou ly ove lokel ere found in so pe cent fall ut p v nec men

On the last of the reperence the utho in t up bd min acral e cct o of iler tum in cacnoma fth r t nanl gm lbcuetI pocel erem thtp ton of the bel hch where ie ce h how i tost apt to harbo polypi M v recu rence aft r ncomplete ope at ons f carein ma of the re turn a e n t tue ecurr e but we ca om ta a ng fr m polyps which e e left b h nd

The therap of p lyps mut u fortu tel be sought in the ofte mut lating vile resect Roentge therapy u el s

Schmeln emphasies the nec its f the u gical m I f car in ma of th colo na mu l prmar al lrer ma ftheit thaln s ref t t p sent day de p ro tgc. therapy An imp tant it n the lag e nb at an f nicti of finely lindele t t m tral and fl tio with r according t the m thod of 1 her

In his ung the lift rent liding Sch places port ula emphas norm idertiult A le lipme til phase f the litter he lift r ti ate the cut tage th hype plast tum rike st g and the catricistenote tag 11e ! believe that the notile coff milgna t degen to w J M voiti 30 prot i II mpha the tremut betake judg g all 1sp ta e us c s i cures ol ta ne i by a a hat n ca inte t al cance \ t ly I ert culit b t al p lyp of the stest my be pec ero the pect 6 p ce tof care a mat f th larg te t ne ho er le latso hip Vio o e the utho bele th t ecu en of cance of the ctum are lyn I ge ati s of polyps hich

r left beh l Acc di g to this thor there just ichtion f the militer abd m no acrale tirp t fth r tum

Schmiede ec mm d that o scon id at on be given to p c nce ou ch ges n I p rtic l rly to operation to the rem val f precance us cells He emphasizes however that in these consider tions we are dealing with the f rmat ve gencs s an I not the can ative rene is of cance. He say that he is not 1 cline | t > 1ttribute any impo tance to bacteri | or parastic i itation in the etiology f cancer

Γ llo g Schmieden rep rt KELLING discusse l the production of tumors by embryo al cells-simi lar (1 hcn ) as ell a foreign embryonal cell o a ant sue f m fetu c nd pl cental t su fin m ce) He said that he ults i licate an interest ng b ochemical elati nship bet een the fetal gon I a d the I va v gland Adrenal adenomata a I tumors of the uteru obtained in othe e peri ment he attributed to an 1 vi ible vi us Since Kelling presuppo is a living virus he believes that th ne entio f carcinon require estriction f the det to fo I that are cooked I in lly he spoke of the tr format on of ulce of th stomach nto c cer He has be ed a c remomatous polyp in a smooth ulcer car

RO ENTRAL BLUMENTHAL a d KAHN d scussed Warsungs in t gat o s of metab lism in cancer They c firm d the d fferences establish d by War burg bet e n the m tabol m of t saues n a re ting conft on d those in a condition of hype plasta a I bl t mat us g th (anaerob e glycolysis) Blume that belle e that th virus which cau es the mal grant g o th e e tually carried around the og mby m c phags le ed f om the spleen C HARFICH empha zed as diagn t cally moor tant the mer ase of the smotic re i tance of the

erythrocyt in go per cint of the cases of cienoma of the 1 t stine

x t t x plt L lim l l t m tdl Ji ddBd 97 6 tpt)

t pati associ ted th the right iliac fossa and me a freque t pr blem i the surgeon In some cae the dt ha be n explained by ch c ppen | ct but \ 3 am nati n and p ati ver ficat on h ere ealed also c mpley s I f le or p eud lesions-execocol c an l lec Ilv per c ecocol c The pur ly mechan c l but not the motor cause of ta a e ame lle t urgers The cond to n t hi h the right lac f sa syndr me have been att buted in cl d mo ble cæcocolon dilatation pt s adhe sio s cong tal or acqur d band and membrane pe cltis d false appe diciti v th r thout del v or right s de i stas hich terminates in more ren te peri c t such pe icholecyst tis peri Iu l ti mese te t etc

Whn n the cae fyo ng patient the gnosis of ch c append citi i uncertain the uthor ad ve ag t reration if the cod to the early t ges When the lag me le defintely he f r r mo al of the pp nds without delay to p e t the pos ible later development of the r ght

sided syndrome Follow up medical therapy should be used if possible. When operation is performed in cases of suspected chronic appendicitis an adequate exposure should be made. The appendix should be removed even if it is apparently healthy as it may contain the slight or chronic lesions which some sur geons (among them Okynczye) consider to be the initial factor in the right sided syndrome. Any distinct adherent bands-especially bands from the lower end of the small intestine and the right colic angle a Lane kink or a Jackson membrane-should be freed

If only a thin dilated atonic exceeding is found fixation and plicature should be avoided. In such early cases without organic parietal lesions but with ptosis and distinct dilatation of all of the right large intestine from faulty attachment slight barrum retardation and intermittent punful crises of carcal distention only the Duval Gregoire operation is justifiable Fixation usually gives merely temporary relief and is followed by new adbesions which may produce further symptoms. It is not physiologically correct to plicate or to fix an organ such as the execcolon which must contract constantly and freely. The \ ray reveals that after pheatures and fixations the right large intestine has irregular dentate borders and is deformed and immobile. If chronic appendicitis is associated with excal stasis of more than thirty hours typhlocolitis and second ary tight dense pericolic adhesions if the patient has already been operated upon unsuccessfully and if medical treatment has proved either insufficient or impossible a right colectomy should be done before the development of more or less intense parie tal lesions of ulcerous or perforating typhlocolitis

Operation is contra indicated when the patient is psychopathic neurasthenic or old or is suffering from general ptosis of which the syndrome of the right iliac fossa is a part Total colectomy is a seri ou operation and is justified only in the presence of total megacolon with total stasis-a rare lesionwhich is manifestly organic and not functional 1 or general and functional stasis and constipation total colectomy has neither clinical nor experimental *iustification* WALTER C BURKET M D

Goyena J R and Caorsi L J Tuberculosis of the Retrocrecal Clands Tuberculous Peri rppendicitis (Tui reul 15 le los ganglios retro cecale penape dicitis tuberculosa) Lei Soe de m d terna y Soc de l s l 1927 HI 229

I rimary tuberculosis of the mesocolic and meson teric glands is not frequent. The authors describe a case in a man of fifty years. About thirty years before the patient was admitted to the hospital he began to have pain in the spine. This was followed by scolio is which slowly increased. About two weeks before he a lmi sion he began to have dull pain in the abdomen which finally became localized in the right iliac fo a. He stated that he had not suffered from nausea or vomiting and thought he had had only slight fever. At the time of his admission to the hospital the pain was intense and continuous

Examination showed scolosis with the concavity to the left. No pain was felt on percussion of the spinous processes or on active or passive movement There was pulsation in the veins of the neck and the cervical glands were slightly enlarged. No signs of pulmonary tuberculosis were found. There was diffuse pain in the right iliac fossa without muscle rigidity Palpation revealed a long tumor parallel with Poupart's ligament and extending from four fingers breadth below the costal arch to two fingers breadth above the middle of Loupart's beament This tumor was hard and irregular and painful on pressure It did not move with respiration or a change of position and could be moved only slight When the colon and excum were distended it disappeared and could be demonstrated only by deep palpation Roentgen examination showed that it was back of and below the colon \ diagnosis of retrocæcal tuberculous adenitis was made

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The Symptomatology and Diagnosis Trotter \\ of Chronic Appendicitis Brit VI J 1927 1

Dowden J W Diagnostic Difficulties in Chronic Appendicities Brt W J 9 7 11 1065 Bonney V Gynecological Considerations in Chronic Appendicities Brt W J 9 7 11 066 Walton A J The Etiology and Sequels of Chronic Appendicities Brt W J 9 7 11 068

TROTTER The diagnosis of chronic appendiciti is aided by local signs such as right iline pain ten derness increa ed resistance and increased tension of the right rectus muscle \ \ definite difference in the tension of the two recti is probably the most trustworthy sign Considerable reliance is to be placed on a sudden momentary sharp stabbing pain in the appendix region This often occurs while the patient is walking. In patients who have given this needle pain complaint the appendix at operation is found to have undergone definite patho

logical changes

General abdominal symptoms of chron c appen dicitis are flatulent dyspepsia and irregular motility and secretion of the colon. In childhood, there may be in addition ecurrent attacks of vom ting or diarrhora with blous attacks a tolera ce of cer tain foods and fe er

The moe comm n complicat ns of chrone ap pendix disea e are chronic cholecy titis pept e ul ce ation and secondary infection of the adn va

DOWDEN In children nd th young a ch onic ppend x lesion should all ava be suspected when there is a h story of listlessness c prici us appetite colleky pains th perhap n usea or omit g The cyclic om t g of acido must be d fleren

BONNEY Append cular pain may be ttributed to the pelv c orga and conver elv rain o ginat g in the pelv c o ga s may be diagnosed as ar sing from the append v The l tter far the m e c m

m n m stake Chrone alp gitis o ar bloo l (en lomet 1al) cysts and a d ag on the right ov rionel ic I gament as n ret o er n of the ute u commonly cause

pain simul t ng ch onic append citi

It is most important in all cise of uspected chronic append c tis omen to lete mi e v v c efully b to e operat o the co ditto and the postion of the uteru and the pa ts adjace t to it n order to e clude the pos bility that the par is iue to ligamentous drag. It sh ul i be remember d that pa due t lig ment us tragi all as smarked ly accentu ted o occus onl when the p tic ti up and about Recumbency auses it to d app ar r to become much les m ked. To e timate uters e or ags 1 ds placement p ope ly the patie t houlibe e am ed in the sta ding post on

Walton Chronic appe dicits is not a primary di case it occurs nly ite an acute att ck

738 lapa of mies for path log cal onditio s

n the upper bdomen which a large a sion a made for bdominal explorat on appende tomy a d ne in only 73 ( ppro im tely 4 per c nt) The appe dix hould be c efully e am ned in e er case but emo ed only fit ho s defin te ev de ce of lisease If it i i fected flamed m kelly thicke el ditended or ont ns ma ; once tions app dectomy 1 and cat d but mild file si or the pre enc of memb nes filament us b nd s ot suff ient ex dence f d ease to a ant this CH LES F DU BOIS VI D procedure

Carnett J B Ch onic P cudo Appendicit s Du to Inte e tal Neuralgi t J II 5 97

Appendectomy fail to relie e the s mptoms of chronic append cit's in from o to o pe c'nt of the cases The symptoms m t fr quently unrel e ed

a cright il ac pa a d tend ne s

Stanton di des his ca s f failure into t o g oups () tho e of young vomen compla m g of right; uinal pain which is usually as ociated with constipation and (2) those in high appendectoms vas done unsuccessfully for the relief of vague ab dominal symptoms Operation in the first group usually reveal a normal appendi and an enlarged mobile cacum

Lehty duises gainst making a dig osis of chron c append citis in the absence of a definite h s tory f characte stie acute attacks. He believes that poor results from operation for chron c appen dicit's epresent not p rative failure but a dag

nostic mi take

Ca nett emphasizes that the decisio as to v hether or not the patient had chronic appendicitis cannot le based upon the pathologist's study of the re mo ed appe dix The microscopie test must be replaced by the clinic I test of whether or not the symptoms for the ch the patient so ght relief tere cured by the append ctomy. If rel ef was not ob tained the condition as a pseu loappendicit s not at ue chr nic app n licitis

In Car ett s op on chronic appe detis ill soon be generally rega ded as either non existent as it is no claimed to b by many pathologists or as an almost une e sal affection lue ra ely to a pre ceding attack of acute appendicit's but more com monly the esult of de nerat ve chan es which are and dent t increasin age an I develop too gradually to cause che cal symptoms. I am and tenderness in the ght lover quadrant of the abdomen have been attr bute I al to numerous ther eauses b sides appendicits but no cause common to all

cae ha beendscoe d

From a c eful study of these cas s Carnett has come to the concl sion th t i the m jo ty the sympt ms of chron e ppe dicitis have feen simu I ted by par and tend ness i the ante i abdom in I all To differe trate bet veen t nderness in the abd min I wall and tenderness 1thin the abdo me it i necessary to palpate h le the p tient holds his anterior abdom al muscles as tens as possible Tense abd mi al mu cle keep th fi g rs from pressin the visc a The usual p ocedur of palpat ng with the mu cles as relaxed a possible el cit tenderness o ly hen the fing a press rather deeply nto the abd men this lead n t the c n clu o that any tende ness noted 1 t a abdom in I The auth remphasi es that the uti appli e to n f the test desc hed in all eases f abdom nal tenderness demo str tes that tenderness o curs i the abdominal all moe freque thy thin ithi the abdome

Tend ness not d hen the abd minal muscles are rel ved may he of e ther parietal r intra ab d mu al 1gn Te de ness v h ch 1s pr se t v hen the mu cles are el ed a dabsent hen the mus cles are tense is d e to an int a abdomin l ea se Tender e s h ch s p sent both hen the muscles are und r tens on and vien they are rel ed is of par et Iorigin The degree f tenderness is ar able Wh r the prelims ary examination fails to sho

evidence of an 1 tra ab lom nal lesion further pal

pation should be more vigorous and areas of mild parietal tenderness should be subjected to poking with the finger at a right angle to the surface. I his poking often reveals a parietal tenderness which would otherwise escape notice. Tension of the abdominal muscless may be maintained by having the supine patient raise his heels from the supporting surface with his hoes extended

Chröne pain and tenderness of the anterior abdominal wall are due most commonly to inter costal or costolumbar neuralga. The entire nerve supply of the anterior abdominal wall is derived from the lower seven intercostal and the first lumbar nerves and the suggested terminology is meant to include all lesions of the spinal cord meninges vertebræ and nerve trunks which can give rise to pain and tenderness in the area supplied by these nerves. Because of the variability in the extent of the involvement many conditions may be closely simulated.

The presence of nerve involvement is proved by the demonstration of tenderness by pinching of the abdominal skin and fat pressure on intercostal nerve trunks and pressure over areas supplied by intercostal nerve fibers away from the abdomen

A triangular area in the right lower quadrant bounded by the midline a transverse line from the umbilicus to the crest of the ilium and a line parallel with I oupart is ligament is found to have a fairly uniform degree of tenderness both when the mus cles are relaxed and when they are tense. In addition tender points are to be found along the outer border of the rectus muscle at the points of exit of the intercostal nerve fibers supplying the rectus muscle. In the interpretation of tenderness of the addoment these tender points must be borne in mind.

The author disagrees with the view of Mackenzie Head and others that skin hyperasthesia is due to a visceroparietal sensory reflex and is therefore indicative of underlying intra abdominal disease

Even when the byperasthesia as evidenced by the pinch test is confined to the right lower quadrant of the abdomen at is very common to find tenderness of the intercostal nerve trunks extending as high as the sixth or the fifth or even up to and including the first 1 alpation for such nerve trun! tenderness is conducted by placine the finger tip in an intercostal space along the anterior or anterolateral wall of the chest and while making pressure upward against the lower edge of the rib-currying the finger back and forth in the interspace

Hypersensitiveness of the terminal branches of the first and second interco tal nerves which are distributed by way of the intercostohumeral nerve to the upper posterior part of the arm can be demon strated by pinching the skin fat and mu cle in the region of the posterior availlary fold

When the twelfth intercostal and first lumbar nerves are affected there are two other areas out side the limits of the abdomen which are often found to be hypersensitive. One is an area about 1 in wide in the upper anterior their parallel with Poupart's ligament which is supplied by some of the terminal fibers of the hio inguinal branch of the first lumbar nerve. The other is a V shaped area in the buttock below the iliac crest which is supplied by the iline branches of the twelfth dorsal the ilio by pogastine, and the ilio inguinal nerves. The demonstration of tenderness in the latter area is a most valuable aid in demonstrating that tenderness at McBurney's point is parietal rather than intra abdominal. This area may be compared with a circular area above the trochanter which is very rarely hypersensitive.

Many cases of parietal neuralgia do not present the complete picture described by Carnett San tenderness to the pinch test or nerve trunk tender ness or both may be absent even when muscular tenderness is quite myrked. The most constant sign of the condition is the tenderness revealed by the polung finger over muscles voluntarily made rigid

Chronic strain of the lumbar spine and sacro line joints due to lumbar lordosis causes tenderness of the vertebral bodies and disks and of the sacro linac joint. As this tenderness is elicited by deep pressure in the region of McBurney's point and the corresponding area of the other side it is frequently interpreted as indicating chronic appendicitis.

Visceroptotic persons who constitute the majority of those suffering from chronic pseudoappendicitis can usually be classified as having one of the following conditions (1) digestive disturbances due to picosis and intestinal stassis () deep tenderness at or near McBurney's point due to chronic strain of the lumbar spine and sacro liac points or (3) intercostal neuralgia of the anterior abdominal wall due to lumbar lordosis and possibly to intestinal toxalma. Patients with these conditions are not relieved by operation and the great majority may be subsequently shown to have the dignostic signs of intercostal neuralgia. Operation is often followed by improvement but ultimately the symptoms recur

In a careful review of cases and of the literature the author was unable to find a syndrome which in his opinion warranted the disposis of chronic appendictis and could be relieved by operation He draws the following conclusions

If draws the following conclusions

One of the following conclusions

the micro cope doe not cause clinical symptoms
2 The clinical symptoms that have been ascribed
to brong appendictly are not caused by the appen

to chronic appendictis are not caused by the appendix and are not cured by appendectomy
3 I attent with chronic pain and tenderness in

the right side present somewhat diverse clinical pictures that are uniformly consistent with inter-costal neuraligia but are not consistent with any other single affection I S PLATT M D

Cutler C W Jr I ostoperative Complications of Suppurative Appendicitis 1 m J S g 19 7 1 602

This article is based on 302 cases of suppurative appendiciti and includes only cases of empyema or gangrene of the appendix perforation or marke!

exudate that were assoc ate l with more or less vide spread petton to abscess

Of these 30 or see 85 (recent) developed complications. The hundred and tharty see any complications the hundred and tharty see any complications. The hundred and tharty see any complications that are also seen to each of these cas is not easily seen general and operated upon at once, gardle of the hour. The tappe day as reme eline ericase unless the patients condition ne intated a que koperation. De ramange as established by men of a fenest atel ubber tube or cagat tied any cases the gang ene uptue o a puille to reropu ulent exuitate. No attempt at mechanical clean in 15 the ablome uses made although uct on employed to emoye set to e u late.

The mot ous complicating personnial fine ase that this on into mall mouth feeding as stipped the pitent pled to the Fowle position saline lutting seven by the fowle position saline lutting the solid of the fowle position and the saline fine for the furphy method by a small rith at enema. Morphe's under the total para Colonic from the furphy method by a fine fine for the furphy for the furphy for the form of the furphy for the furphy furphy for the furphy for the furphy for the furphy furphy for the furphy for the furphy furphy for the furphy for the furphy furphy for the furphy furphy furphy for the furphy fu

\ umm \ of other meth d of ma agem t | b eff | cluded n the d cu |

In eighten cae (46 pe cent) a sec nd v int perito I ab de loel le uhab sc se e ucc fully danel thro h th nal in on h le eight requir da n la vopera tio Four resubphrenic two t the right lumb r gutter a it i the left lo er qual at F of th eighteen pat nt d l l fæc linstulæ d vloped in the eri. Three loel pint e ulv a dit requied e dary pe ati. Mechi e l il us occ eln t me C lluht of th abdom nal p et thee a lot perst he nia a found t ha e ur el n i l'ain l'ease I eumonia de elon d'eght e that o deaths I ulmonary mboli m r ult d n fat lity No cae im s veclipe ith I gwas econ zed M D I L AR B

(h d ni A My Metl od ol R ctop xy (( t b t l l t p pr pr p )

Then the first discribed his method for tope, yo 1808. At that teme he his list only on the cada e. Then ne to ache mply distinct in the tement of lattent nlice the has ope ted the ope at ten time the vell nt uli The pocedue consite entillo dispersion of the pertoneal culde c fDul and to ton lithe male condition of the pertoneal culde c fDul and to ton lithe male condition of the pertoneal culde c fDul and to ton lithe male condition of the pertoneal culde c fDul and to ton lithe male condition of the pertoneal culde c for the pertoneal culded the form of the pertoneal culded the condition of the pertoneal culded the form of the form

Both the immed ate and the late results in all cases he else on excellent. As the operation is settra rectal a l does not establish any communication bet een the intel tie? I like sound there is little la ger 1 infection. The peration not o ly fixes the rectum but puts it in its normal positions with an axis different from that of the a us. The suspens on of the ectum by fi ation of its. I laterial surfaces to the sac o canter I gaments accomplishes this purpose pe feetly. The late a linkation faitte is the anteroposterior diamete of the rectum run or mally mortal from of a childroid diattened anteropo teriorly. The late 1 ll of the rectum run on mally attached to the visils of the plis by the lator an mu cles the middle hamor rh dal a tery, and is fibrous she the 1 lines are orectopential pole o s

The h le rectum 1 sho tened by the authors method and the acro ectogenital apo eurosis which ge erally tretched 1 prol pse 1s sho tened by th foll in the later I surface of the rectum. The sect on of the po te 10 fold of the fibrous sheath of the r ctum and the uturing of its edges to the lat al urf ce f the ectum greatly strengthen the tivation of the bowel t its ew post on The lateral rect pe v an i plication horten the a ococe geal raphe whi hi I av tr tched in p olapse of the ect m The e e t on of the p r toneal ac doe a v ith the mot common cause of recur ence a t rem ve the plane o which the ectum glid do a d The utu e of the exte n ledge of the le tor ni a d the exter I sphi cte re tores the n mal cond ton f the per neum nd anus and re mo e oth causes of recurrence such as tony of th anu and asufficency of the perineal floo I DRYG MR AV ND

of it. Wills Colon and

Coffey R C Cancer of the F 1 lc Colon and R etum S & Cl \ 1 9 7

Ther dical operation first d scibel by the a thors apple ble to to case so cance in both the go then been the model of the rectum proper and in a ufferently early state tope me time of the gmoud. The modifiest not then og a lofter operation i apple ble to a csis in which the go the blocate in the component of the good.

Coffey revie s e en ca e ope at 1 po b hm He d cu se n detail the methol 1 de 1 g w th leso ol va ving ette ta 1 in dfle t 1 catio and emphas zes the mportance of the se of a larg am ut f gauze w ch. as a dr

muligauze w CL 25 2 Co / MD

Go don W tson S C Th T atm at of C neer
of the Re t m th R d am by Open Opera
ton P Ry S W d I d 9 3 9

The celle ce of the results obtained ith ad um in cp thelioms of the skin mouth and to ue and it cancer if the uterine cerix cence need the a thor to in estig te the effects fradum tret me t in care noma of the etum. Fifteen esse cret eated by a rad im barrage after

open operation. The technique requires a preliminary colostomy with exploration of the abdominal cavity for secondary growths and btopsy from tento fourteen days before the traditation.

The rectum was freely exposed by measions from behind. Needles each containing from 1.5 to 3 mgm of radium element were then inserted at equal distances from each other throughout the lesions with eare not to puncture the mucosa. The three sets of harmorrhoidal vessels were also irradited. Packs with fivine and parviling gauze were placed over the needle and catheters were inserted into the wound for Carrel Dakin treatment.

The irradiation was continued for from see on to fourteen days and the dosage varied from 268 to 9 840 mgm hr. The relative value of the use of a small amount of radium over a long period of time and of a large amount of radium over a long period of time with equal milligram hourage is discussed at length but no definite conclusion is reached

In the cases reviewed 50 mgm for 00 hours a total of 10 000 mgm hr was the maximum dosage. The screening variations in the technique complications infections and the author's general im

pressions are discussed at length

In selecting cases for radium treatment the author excludes those with metastases in the liver or peritoneum and those with growths above the peritoneal reflection. The most suitable cases are those with lesions low down and posterior.

The method is associated with some risk, but this is not necessarily serious. Rectal carcinoma can be destroyed with ridium but lymphatic spread is difficult to check. The results justify an itempt at cure. The author urges co operation between the various specialists in dealing with this problem. The results in the fifteen cases reviewed are tabulated.

Eight of the patients were benefited. In two no growth can now be detected. Of the two whose condition was operable one developed a recurrence fifteen months after the operation and died. The

other is apparently cured

In the discussion of this report LOCKHART NUMBERS stated that he inserts radium by means of a special trocar passed through stab wounds in the skin. He uses large doses for a short period

He has had no trouble from sepsis

HADDLY stated that in his opinion operation will ultimately be abandoned. He advised irradiation as high up as the sacral promontory. He be lieves that the method described is superior to irradiation from the lumen of the boxel as it does not prevent the use of his encirclement method and is free from the danger of a reduced or stimulating does to distrint parts.

Donaldson stated that in his opinion radio therapy offers much better prospects than surgery and that when the laws governing the differences in action of radium on malignant and non malignant cells are discovered a tremendous a lyunee will be made in the treatment of cancer

A JAMES LARKIN M D

# LIVER GALL BLADDER PANCREAS AND SPLEEN

McQueen J M Direct Observation of the Circu lation in the Living Liver Br t M J 19 7 11

In studies of the circulation in the living liver McQueen used quarter sized or half sized toads that halbeen pithed. A lobe of the liver was placed on a glass slide and examined under the low power

The liver cells and the flow of blood through the capillaries were clearly seen. The investigation showed the presence of a pulle in the expillaries and some of the branches of the hepatic venns. This pulsation was synchronous with the auricular contraction and was produced by retardation of the flow from the liver to the auricle.

These findings confirm the description of Mac

kenzie in his treati e on the heart

I EDWARD B KOW M D

Leone P Sympathectomy of the Hepatic Artery and Its Effect on Wound Healing and on the Bulgenic and Glycogenic Function of the Liver (La simputect ma dell at a pate napprote apprecia processing the companies of the companies of

Two series of experiments on dogs are described. In the first, the author studied the effect of sympa theetomy of the hepatic arters on the repair of simple linear and wedge shaped woun is of the liver. The operation had no perceptible effect on the heal ing of the wounds.

In the second series of experiments he studied the effect of sympathectomy of the hepatic artery on the bulgenic and glycogenic functions of the liver A disturbance of these functions was noted during the first week, after the sympthectomy but within ten days had entirely subsided. The author therefore concludes that the transitory decrease in function was caused by irritation of the visceral sympathic by the operation Widdle (More) WID

Buchbinder W. C. and Kern R. Experimental Obstructive Jaundice. I The Growth Factor in Defective Calcification. I ch. I at. M. d. 1927 xl. 900

In experiments which were earned out over a period of twelve months on five litters of puppies the authors found that when ob tructive rundice was produced in these animils a fairly uniformly progressive calcium deficiency occurred in the blood serum during the period of growth. They attribute this deficiency to the deposition of lime sitts into an increased matrix rather than to progressive failure of cilcium absorption. Roentgenograms taken twenty divis after the induction of jaundice showed no significant changes in the bones, but tho c made after sixty days disclosed marked rarefaction.

The four chief factors responsible for faulty cal cification are (1) small storage of calcium (2) a

disturbance of metaboli m u favorable t osteo genesis (3) an i test al factor in wl eb the ab ence f's me catalytic agent in the ble may be most im potant n 1(4) the production of bowhich ceeds the rap dity with hich le salt are depited

The auth fi l g upp t the the ry that the extrahepatic functions f b ic are closely el ted to bone met bolism J l D G M D

B rden V G The Cln cal Belay of the \ rmal and tl D e ed Gall Bl dd 4 J S 1

The author first r & the atomy and histoly to the gall bla l i He call attent on e p cally to the two foll blood and lymph upply to the rgan Beside the cyst c t y there are mill c cls hehe te r f om the liver

Because of the militrit mof the gall bladler all and the deproys and gall ds in the must feet ton of the gail bladder is not a ly eradicated Autopsy sh s ho frequently the gall bladde reperably lamage the le anith 1 creas Myocardial d m ge a th ts a d inte tinal bleel g ar alore ult of gall bladder mi u

The f ncti nal impo tance of the gill blalle largily peculity. When we have were that the organia retention lepot fo bill ad that the the ble ema the gall bill it coe trates mucu slikitot dit reaction chang if from alkaline to acid.

The nuth beleves that the gllblil become fills the rult of necessary caused by lower the lower nel fithe common duct. He bits stempt by the musual act to the post of between the stempt by the stempt

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tiebs pathological phy lology. Inhitrat is the gilbt dier all t fe thic toto of thorgn pol gite fty gtm alfavor the accumulate of e in 1 bie of the fty of the courrence of oh ft the toto off desnager ment with then might felo totat in the gilb black is gf mith stimul ton fie d. I tief te c. i lies uch timulation i du p

Graham rk th h l the first had ten ed in estigation of the ction fithing libil lie. A risume of ripo its fituicism this hill cytgaphy in lulid the tl. R. W.D.

Ve bry ke J R J Cl le y t t my thout D image  $M d J \cup R = 9$ 

Verbrycke cit sithe tit t of Lyon heb nd cate thit theae g m tiltvof gall bilder ur gerving gs fom 5 t oper cent and cint asts these data thith obtained from other clewhich show that the average mortal ty 1 pe ce t

The internit i inclined to temporize ith gall blad le d case and therefore efers only ad need cases to the surgeon—hence the higher mortality. One un ucce sful med cal course of treatm nt arrants urgical a l

Only arely should patents the acute gall bldl lessons be ubjected to emerge cy surge y. The presence of jaundice soft usually an in lication for ebolecy steetomy without drainage.

The authon nalyzes the tyconsecutive cales of cholecystectomy, it hout drainage in which there as no mortaity and the mobility was alm as negligible. Thirteen case had tones and seventeen election with the control of teasonably blue color one color tanglation.

of reasonably blue color one co ta ned stone e

wa a typ cal stra berry g | 1 bladder one presente |

sight chronic th ke ng of the all with enlarge

ment of the cystic duct gland and three had

omental adhesions o e of these showing marked

hepatit; and pa c eatitis

Whe check tectomy ithout d a nage has been ell performed the po toperative history is m ch moother that hen cholecy tectom with d an age has be n done T enty pate its subjected to cholecystection without d anage had no part cu larly distress g ymptoms postoperatively. Ten h d m e ries unusual symptoms lasting from one to everal days but only the ep ese ted symptoms of impo tance. One of the latter went into shock, a d had t 1 us convale cence one had much gas d a bele ed for t o days to be in danger of leu and the third hic ughelf o e esh ad de clop d u d niete n All but f rof the pt nt e e discharge i from the hop tal iths t esk.

Cholecs tect my thout drain g ontra i dic ted f thre h been he retrainman mand if thre oz ng from the gall bladd r be i if the e habeen leakage of in ct e mater 1 a d if jaun lice has occurr d Ev n though stone can be d m t sted in the common duct three sa pos sblighthat t emay habeen overloked 10 sible dage soft ght clue a 1 akage of

to stole da ges of control of a Talang, the cy tie duct f gatu e nd th p ese c of access the cy tie duct f gat end by tight et also lang can be le ned by tight et ass l ature b H M D

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The utho pre ent of a ladd comp lat on of the ults fradical operation is a cinoma if the ble ducts reported; the literate Ascarc nome of the ble ducts relatively slo in it grow than diorms much a tasses lat the esuits of radical operations are not o unsuccessful signed in gradient operations the operate mortality of which is reloaded by the constitution of the con

Fulde reviews fifty two operations for carcinoma of Vater's papilla—fifty one reported in the litera ture and one of his own. Forty seven operations were done in one stage and five in two stages. The mortality of the one stage operations was 42 5 per cent Transduodenal extirpation was done in forty two cases retroduodenal extirpation in two cases extirpation from the common duct by extroversion of the papilla in one case and resection of the middle portion of the duodenum in two cases.

In the two stage operations the first stage was the formation of a gall bladder fistule in two cases drainage of the common duct in one case and chole cystenterostomy in two cases. In the second stage transduodenal extripation was performed three times and resection of the duodenum twice

There are records of eight radical resections for careinoma of the common duct eleven for exteriona at the juncture of the cystic and common ducts two for careinoma of the cystic duct and one for careinoma of the hepatic duct. The operative mortality

in this group was 35 percent

The author reports the case of a man forty six years of age who had been jaundiced for five months At operation a tumor the size of half a cherry was found on Vaters papilla. After mobilization and transverse incision of the duodenum transduodenal extirpation was done. Microscopic examination showed the neoplasm to be an adenocarcinoma extending from the common duct. The cure has lasted for two years.

Pierl G The Transverse Incision in Operations on the Bile Tract (Lincision transversale dans les opérations sur les voies biliaires) J de cl ir 1927 xxx 260

In I ieri's operation on the liver or bile ducts or for exploration of the upper part of the abdomen the patient is placed on his back with a sand bag under the lower part of the thorax to produce an exagger ated lordosis Then a transverse incision is made beginning at the end of the right tenth rib crossing the midline two fingers breadth above the umbilious and extending about a finger s breadth farther to the left In fat subjects the incision may be extended farther and in women with a prolapsed liver it may be made a finger's breadth lower. After section of the subcutaneous tissue and aponeurosis a double row of sutures is placed in the rectus to prevent bleeding and retraction and the incision is made between them The sutures occupy only the inner two thirds of the incision as it is not necessary to extend them to the oblique and transverse muscles After the peritoneum is incised it is surprisingly easy to bring the lower border of the liver out at the in cision When a drain is necessary it is brought out at the outer angle of the wound

The advantages of this incision are that it spares the muscles and nerves of the region more than any other type of incision it gives a better view of the field of operation it is parallel with the lower border of the liver while other incisions give an access which

is perpendicular or oblique to the region to be oper aded upon it permits lateral drainage which is much better than the vertical drainage from the other in cisions the reconstruction of the abdominal wall is very solid and as the drain comes out high and near the costal arch it reduces the possibility of post operative herma to the minimum. If a hermi occurs it is easily cured because the direction of action of the abdominal muscles; it ransverse and therefore much greater solidity is obtained by a transverse reparative suture than by a longitudinal suture.

AUDREY G MORGAN M D

Sprengell H Clinical and Anatomicohistological Research on Healed Necrosis of the Fatty Tissue of the Pancreas (Khinsche und anatomisch histolo ische Unter uchungen an ausgeheitlen Pan kreasfett eweb nek o en) Beitr kin Cl r 1927 ct 17

At the present time little is known concerning the histological results in the healing of acute pan creatitis. In 1901 Koerte reported a case in which eight years after operation the head of the pancreas was found to be of normal size whereas the body and tail were replaced by thick scar tissue

The author reports the case of a woman fifty six years of age who was operated upon on August 13 10 4 for acute pancreatitis The operative procedure included incision of the capsule of the gland tam ponade and drainage of the bursa omentalis emp tying of the gall bladder which contained stones and cholcey stostomy On May 5 1925 a secondary cholecystectomy with drainage of the choledochus was performed The pancreas was then found to be grayish white and of normal size. In January 1026 the patient was re examined and found to be in perfect health. On February 16, 1926 she was admitted to the hospital in a moribund condition due to strangulation ilcus caused by a band of cica tricial tissue extending between the excum and the lower part of the small intestine Soon after her admission she died

The autopsy specimen of the panereas entirely embedded in scar tissue appeared grayish white and showed a distinct lobulation. In length breadth and thickness it appeared somewhat reduced. Mi croscopic examination of sections from the head body and tail showed normal panereatic tissue with a great number of islands of Langerhans some of which were very large. The interstitial portion consisted of loose connective tissue without inflam matory thickening. Only in the middle portion was there an area changed by disease. In this area the intralobular connective tissue was proliferating sprinklings of small cells were found the ducts presented decided atrophy and the islands of Langer hans were very large and well preserved.

This case proves that pancreatic tissue has great resistance and is capable of considerable regeneration. The latter is true particularly of the islands of Langerhans which undergo what may be called a functional by pertrophy. Brope [Z)

### GYNECOLOGY

#### UTERUS

Odenci 1 W Dangers of Ute osalp ng g aphy
(U b Gef he d Ut o S lp gr pl ) Z
i lbl f Gy k 9 7 1 8 4

It has been observed in the Gynecolo ical Clin c at Bonn that ute osalp gog aphy hich has proved its importance in gynecology may be folloved by certain unfavo able sequela. In this clinic it did not cause death as in the cases rep reed hy Hellmuth f om the Wue bu g Clinic hut there were cha ges which n one case presented at laparotomy the picture of a fo eign hody granuloma such as is occa onally observed after p affin injections Peculiar giant cells a d necrot c foci were found not only 1 the lumen of the tube but also on its surface and on the ovary. In the same regions there we e smooth walled cavities of various at es containing fat globules. Whe the cont ast material remained in the lumen of the tube and did not escape into the abdominal ca ity because of occlusion of the ah dominal end of the tube d turbances resulted D sturbances has e occu red with e ery k nd of contra t material used

Sine the changes dees bed occurred in spite of the most careful sep and obser ance of contra ndications the author varia g in texte ding the indication of the uterosalpi gography. He bele es the procedure should be employed only in uncomplicated asset of sterlity. In the et may aid in eluc datn a number of physological problems Diagnostic e or si are frequent in the cases of

Diagnostic e ors are frequent in the cases of ownen v th a spart deathers and a labile sympa thetic nervous system who react trongly to psych c and psychosexual stimuli and in the cases of women with displacement of the uterus and an abnormal ocurse of the tubes. In such case sto erocatgen pictue often fail to sho the outline of the tubes alth ugh insuffiction yields a post two results.

For the die gest results of examinat in south mechanical and chemic 1 influences may be responsible. The latte may include the male sperm.

Op. H.L.(C)

To cases of tet rv sphils of the ute u a d
one case of tet a v sphils I the adne a e re
ported. The autho states that sphils of the ute us
and and va mo of requet I than is gene Illy be
lie ed. In syph litte met t's the most impot at
sympt ms are hemorrhage which increases in se r
ity and pan w thout in olivement of the ad e a or
pe met ts. It tological v m nation re eals the
type calp feture of prenarter its mes tertius and infil

tration of the parenchyma hy round fusiform and typ cal plasma cells

The author's first case was one of periarte itts and his second one of obliterating mesarter in If the ds ease is not treated the infiltrating connective its sue will undergo hyaline and fibrous degeneration and cause selerosis of the uterus

In all of the case reported the Wasserman reaction was post to. The differential d agnosis of the condition s made po sible by the Wasserman test and a decrease in the symptoms under specific treat when the Mun ev G Mokoan M D

Cui T T sts of the Virulence of St ept cocci in the T eatment f Cance f the Uterus (L po d II ul d ll trpt c ella f d I c d II te ) R i I d f 9 7

Even when a faultless technique used Wert he ms abdom nal ope ation for cancer of the uterus is still associated with a high mortality. Some of the deaths are due to infection by streptococci Ruge de ised a method of testing the virulence of the st eptococci He tries to rep oduce in vit o the st uggle bet een the hacte is and the defensive forces of the body He takes streptococci directly from the focus of a feet on (the ulcerated c ater of a ca cinoma the uterus after ab rt on etc ) and so s them in defibr nated blood of the pate t brained by puncture of a ve When the streptococci de velop rapidly i the bl od of the pat ent they as virulent and the progno is is unfavo able but hen they mult ply slowly -only aft r four hours -o not at all they are not irulent

I hippo modified this method omesh t to over come its subject is features. He incoulates on Pet dish fig. r ith half of the mi ture of de fibr ated blo d and bacter a nd Rer it has bee kept in the the mostat for I ur hous sh. nocul te another dish ith the othe half. The e is livays de elopment I colonic n the fi dish but the development n the second dish depend upon th

v ulence of the streptococci

The author report fo reen cases I hich he te de the Ruge Philpp method. Although th number is too small to permit deh te conclusion be believes that it cases of cinoma of the cerv which are clinically operable the pognosis after and callahd minal operation ill be good frie Rug. Phil pp test is neg tile but if the st epicocci a virulent the postoperative course vil probably the compilerated by infection e en when the clinical coditions seem to be fine ability.

The presence of wrul nt strept coc i does n necessarily mean clinical noperably but of coun case with deep diffus on of the care the strept

cocci will have a hetter opportunity to increase in virulence. The author helieves that if the test were generally applied and all cases with virulent strepto cocci were excluded from operation or given pre liminary treatment to eliminate the virulent bacteria or decrease their virulence the mortality from Wert heims operation would be greatly reduced

AUDREY G MORGAN M D

Pomeroy L A Five Year End Results of Radium Treatment in Carcinoma of the Cervix Uteri Am J Rocalgenol 1927 xviii 514

In the earlier cases of carcinoma of the uterine cervix reviewed by Pomeroy the treatment consisted in the intra uterine application of screened radium element and the insertion of steel needles containing radium element directly into the tissues of the cervix. The dosage was usually about 3 000 mgm br. In the technique now used the entire length of the canal is irradiated with a dosage of about 2 700 mgm hr. and in addition glass or gold seeds are implanted in the cervical mass. As a rule twelve i me glass seeds are implanted. The combined dosage therefore ranges from 4000 to 6000 mgm and mc br. Such treatment is not repeated for several months if at all

Of twenty nine patients with microscopically proved carcinoma of the cervit who were treated with radium five (17 per cent) are apparently well after five years. The twenty nine cases included all classes from early to advanced. More than half of the cancers which were arrested by the treatment

were adenocarcinomata

In the discussion of this report. HEALY stated that he uses two capsules one in the cervix and one just above the internal os He has rarely observed car cinoma of the cervix extending above the internal os He applies applicators across the cervix and at the base of the broad ligament on either side giving a fairly large dose Since 102 be has used the roent gen rays for external crossfiring. He also makes interstitial applications of gold seeds containing radon The patients rarely receive less than 6 000 mc hr The cervical canal receives 3 000 mc br and the seeds increase the dosage from 500 to 2 500 me hr Many patients receive 7 500 me hr within forty eight hours. Six weeks later routine high voltage roentgen ray treatment is given over the pelvis Healy has found that the histological study of the cell type yields no information of value in the treatment of these cases. The most important factor governing the prognosis is the extent of the local disease Of the patients with early carcinoma who were treated five years ago 60 per cent are living and well Of those whose condition was in the horderline stage 56 per cent are well and of those whose condition was advanced 9 per cent are well Of the patients who were treated for recur rence 16 per cent are now in good condition. All of these patients were treated with radium only

WARD reviewed 32 cases 14 of which were operable. Fifty per cent of the patients are well

after 5 years. Of those who were treated for recur rence 14 are well. Of those with a borderline condition 10 per cent are well. Of the 14x with inoper able and advanced cancer 5 per cent are well. The technique of treatment consisted in the introduction of one or two tubes of radon in the cervacianal and the application of a plaque against the cervit to crossfire the growth. The uterine cavity was not irradiated. The dose was between 2 500 and 3 000 mgm. In this was repeated at the end of six weeks if there was still evidence of the die ease. Ward believes that in the determination of the dosage the clinical classification of the case is of more importance than the microscopical classification.

SCIMITZ stated that the histological classification is one of prognosis and not one of treatment

In closing the discussion Pomerov stated that irradiation of the entire uterine canal lessens the chance of contraction of the cervix with retention of pus in the uterus. He makes only one biopsy

He has found that a large cauliflower mass is much more amenable to treatment than a small de structive erodiog lesioo A James I arkin M D

#### ADNEXAL AND PERIUTERINE CONDITIONS

Ruhin I C Rhythmic Contractions and Peristol tie Movement in the Intact Humon Follopion Tube as Determined by Peruterino Gas In sufflation and the Symograph Am J Obst & Gymc 7927 u 557

Contractions in the human fallopian tube can be studied by means of uterotubal gas insufflation and the Lymograph In streaming through the tubes at a constant pressure rate flow the gas acts as an elastic body upon which tubal contractions register varying degrees of pressure. As a comparison with the phenomenon in the surviving specimen without gas insufflation has shown the character of the contractions is but little affected by the gentle inflow of the gas A rapid flow may cause a certain amount of irritation and is therefore to he avoided. Rhythmic waves recorded upon the kymograph and mano metric fluctuations indicate objectively the presence of tubal contractions. These are absent when the tubes have been ablated or are closed or strictured at any point between the intramural portion and the fimbria They are totally absent in the dead human uterus and tubes

In the absence of tubal patency and tubal con tractions the kymographic record describes an up ward slanting line and when the highe t pressure point is reached it describes a horizontal line which draps when the cannula is withdrawn from the uterus

The evidence so far adduced indicates that certain conditions influence the character and occurrence of penstaltic movement. In the presence of spasm an initial high pressure is followed by a drop in pressure which is succeeded by the appearance of regular rbythmic contraction waves on the kymograph.

Narcosis definitely reduces the rate and amplitude. In the presence of cervical regurgation and the absence of fluctuations bearing down effo is on the part of the patient will establish the diagnosis. If the p essure rises as a result of these straining efforts it and cates that the tubes are patent but their peristaltic m tion is impaired. In doubtful cases this has proved a alumble and

Since tubal c ntractions depend upon ovarian activity their character changes with the different phase of the m istrual cycle. They are definitely affected by such conditions as grave functional ame orthica in voung women and the preclimacteric state. In these conditions the kymograph curves if pesent at all are shallo and less frequent 1lo e er in many cases of sterility associated with amen ribrar manometric fluctuation are noted during tulal in ufflation and sometimes are ell marked resembling the behavior of no mal tube

Although no parallel investigation of the presence and c tent in the blood of a female se hormone has bee carred out in these case the results obtained p into retent on of tubal peristals inhout sufficent formone present in the same case to activate the ute us to the full degree of menstruation E. L.C. NELL. M.D.

# Fase JR The Ovary In Osteomala in Am J

O teomal can bas long heen regarded as a disturba co of metaboli m peculi r to female and usually occur ng in pregna cy or at least brought to it fullest de elopment hy pegnancy. The hime salt a e ah tracte i from the bones—first and most not easily from those of the pel is and late from other hones. The result is curvatue and deform ty of the pelv s and other hones and deform ty of the pelv s and other hones and deform ty of the pelv s and other hones are penetually c or innated affammatory degene at i e processes develop in the ne wes and muscles. These it ter are imp tant fact is in the clinical pi ture of osteo malacia.

That the some hat decided o a an hyperplasia play a promine t part in the condition is i dicated by the folloring object wat ons

The prompt cessat on and permanent cure of many ca e aft r ca trat on

2 The o cu re ce id aggravati n of the steo mala ic state dur g p eg ancy and menstruation

nala ic state durg p eg ancy and menstruation
3 The filure f other end erin the apy
4 The high d ree of fertility in osteom lacia

5 The occur n e in the o y f st uctures which must be asso ated with specific ovar an functions

6 The ntense ascular changes in the vary—congest on ith the de elopment of almost a telan g ectatic condit on

7 The pre ence during pregnancy of almost mat re granfia follicle with a ell-marked corpus luteum

8 The occur enc of nterstiti I gland format on in preg ancy at puberty and at other times when ovarian hyperfunction is to be expected and the occurrence under normal conditions of pregnancy of certain hone changes slightly resembling those of ostcomalacia

All of these observations seem to indicate that osteomalacia is closely related to ovarian hyper activity and that this excessive ovarian function becomes in some way diverted along pathological nes HARVEY B MATHEY S M

Dalle a N A Cyst of the Ovary Di gnosed as a Fib omyoma of the Uteru (Come u st d ll a po nd c llad g o di fbrom oma dell te ) Cl sl 9 7 567

The patte t whose case is reported a as a woman forty three yea s of age who had been marined for eighteen years but had had no children. Shortly before she as seen by Dallera her menstruation had become menorrhagic and since then she had leucor flica before the me strual period. She complained also of hadder symptoms and of a tumor in the ahdomen which had slowly increased in size and caused a feel ng of weight.

Examinat on revealed a large tumor in a med an position in the subumblical region. The eoplasm was hard latt not of un form consistency the upper part being softer than the lose rport on Its urface was irregular. On vaginal exam atton, the cerva was found to be continuous with the love rpofe of the tumor and only slightly movable. The entire mas moved with the cervar. A diagnoss of fibromyoma of the uterus was made. The slight mobility of the tumor and the severe bladder symptom suggested that the neoplasm was interligamentous and the var attorn in its consiste cy and the d'a charge suggested that it was beginning to u dergo degeneration.

At operation the tumor as found to be a cyst of the ovary with fin and diffuse adhesions to the nestine and the floor of the pelu. The adhesions in did acted that inflammation had been prese that no history of inflammation could be obtated the custom of the cyst had been peented by the thickness of its walls. The median position if the cyst and seen of its apparent connect in a with the tuter is were due to its adhesion is its partially interligamentous devel pinent and its incarceration in the pelu. The typical is given to the connection of the court of the country had been masked by the old inflammation. Aubert of Mison VMD.

#### EXTERNAL GENITALIA

Puccion! L Histological Changes in the Vag nain the Differ nt Phases of the Functional Cycle of the O ary (M dic ro to tol gub dila g dil d p t o le f dil f n n l dil a) R t l d g 197 t 544

Puccioni describes the histolog c l appearance of the vaginal mucous membrane at d fit ent periods of the menstrual cycle. In ten instances the examina ton was made in the week preceding the b g nn. g of menstruation in three during menstruation in five from twelve to sixteen days after menstruation had stopped and in two after the beginning of the menonause

In the intermenstrual period there is a first stage in which the epithelium of the vaginal mucous mem brane is beginning its regeneration at the points where complete desquamation took place. In the second stage regeneration is complete and the epithelium is made up of a basal layer of cylindrical cell surmounted by one or two rows of cubical cells and a number of rows of pavement cells the last of which is almost completely comified.

The premenstrual period may also be divided into two stages. The first is characterized by active pro liferation of cells chiefly those of the basal layer of epithelium which causes a uniform elevation of the epithelial surface. There are many interpapillary prolongations which extend deep into the tunica propria and many papille with dilated capillaries which penetrate the epithelium. In the second stage, the proliferation of epithelium stops and degeneration of the individual cells most marked in the superficial layers begins accompanied by desiquamation of the horn layer. The connective tissue of the tunica propria is loose and infiltrated with young cells there is intense by peræmia.

The menstrual period is characterized by progressive desquamation of the newly formed epithe him a decrease in the papillary maginations and an intense hyperæmia accompanied by many small hamorrhages in the tunica propria. The connective tissue remains loose and inflitrated

In the menopause the vaginal mucous membrane looks very much like that of the resting intermen strual period

The changes described are synchronous with those in the uterine mucous membrane. The changes were of the same nature in all of the cases but much more intense in some than in others. The most constant ones both qualitatively and quantitatively are those of the premenstrual period and the least constant those of the menstrual period.

AUDREY G MORGAN M D

Furniss H D Ureterovaginal and Vesicovaginal Fistulæ Combined i J Sig 1927 in 405

While ureterovaginal and vesicovaginal fistulæ are fairly frequent the combination of the two is rare. The author records two eases in which such fistulæ followed hysterectomy for fibroids and were cured by operation by a new technique

There are three principal causes for this operative complication (1) direct operative incision of the ureter and the bladder (2) necrosis of the ureter and the bladder as a result of camping or suturing and (3) necrosis from interference with the blood supply

The type of treatment of the condition depends upon the presence of infection of the ureter and lidney pelvis the loss of function and the possibility of brioging the ureter into the bladder wall. When the ureter cannot be brought into the bladder wall nephrectomy is the operation of choice. If function is good and there is no infection a ureterovesical anastomosis should be performed and the vesico vaginal fistula closed later. The technique is as follows.

Exposure is made through a one sided Pfannen stiel incision which starts at the anterior superior spine of the ilium and I in to its inner side and passes downward in a curved direction to the mid in above the symphisis The fibers of the external oblique are divided in the same direction as are also those of the internal oblique. The trans versalis is divided with a sharp knife. Care is taken not to open the peritoneum. The latter is peeled away from the lateral and posterior pelvic wall. The ureter found on the peritoneal reflection is grasped with Allis clamps so that the teeth come together around it The fistulous portion of the ureter is exposed When a suitable portion of the ureter is found for anastomosis it is double clamped and cut I portion of the bladder wall nearest the ureter is grasped by two Allis clamps and a forceps is pushed through the walls so that it enters anteriorly and emerges posteriorly The portion of the ureter held in the forceps is then transferred to the forceps that has passed through the bladder and the ureter is drawn into and again out of the bladder. The ureter is then stitched to the posterior bladder wall where it is drawn into the bladder. The forceps on the end of the ureter is then removed and the free end of the ureter is allowed to fall into the bladder cavity The opening in the anterior bladder wall is then closed

The wound is drained for seventy two hours. A Pezzer retention catheter is placed in the bladder for seven or eight days, being removed daily for cleansing

Two cases which were successfully operated upon in this manner are reported HARRY WINK MD

### OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

No dio A S me Case of Perforation of th Uterus
(C 1 lc di p I a n
d ll 1 ) R 1 I d g q 333

No 1 rp ts si cases of pe foration of the ute us n in the ls in a produced by surgical istrume t such as abortion foc ps uter ne start in all Total h te e tomy a pe fo med in to e so the death; both supravag nal byster ectomy the each es tith to de this and one re o er; and a cone ative operation in one ase with death

The author diviles perforations of the uterus into two groups with effective tertainent—those in use into are not pregnant or puerperal and those in pig ant or pue peral ute: In the first group the teatment may count in 1 tricht co see seat vertically the state of the control of the teatment are country to the properties of the control of the teatment and the state of the conservation for stury of the peral country of the peral country is an including the state of the peral country is an including the state of the peral country is an including the state of the peral country is an including the state of the peral country in the state of the peral country is an including the state of the peral country is an including the state of the peral country in the state of the peral country is an including the state of the peral country in the state of the peral country is the state of the peral country in the state of the peral country is the state of the peral country in the state of the peral country is the state of the peral country in the state of the peral country in the state of the peral country is the state of the peral country in the state of the peral country is the state of the peral country in the state of the

hьe I the ec ndg up the operation hould be total hy t e t m The danger of 1 fectio in these case i ve s g at In Nordo op ni mple utu e of the p rl at n 1 permis ble only when the gs e colgth made the priration has if in the ho pit l I kno th tit i s done under condi of stact a eps s the e ha been no p ev ou att mpt t b rt o out ide the hospital and there is no ju v t n ghbor ng organ I art al hysterec t m is nic ted only n cases in which total hyst ect my a contra a di ated on ccount of the tatie tapo gine al codito or old bedificult becuse lobe to co severon of the stump of ad able on account of myury t the cer neighb ing organs ١ G M G N M D

If owitz E A and kuttner T T The Blood
B ii ubin in Ectopi P egnanes 1m J Ob t &

I om a t dy of fifteen cas so fectop: pregnancy the utho co clude th tectop: pregnancy cannot be d ag sed by determ at on of the b I rub nc n cent att n f the per pheral bl d. The main points b ought o t in this art cle may be summarized as follo

In the hamorrhagic e tra asstrons of cert n cas of e top c tr gna c, there s prob bly a loc l format n f b l rub n f om hem glob n

It han t been d te mi ed how quelly this b lirubin is fo med or absorbed

3 The normal l ver promptly removes any e cess of b lirubin from the circulating blood by excreting it into the biliary passages

4 In cases of ruptured ectopic pregnancy interus may be simulated because of the aniemia

5 H5 perb lirable rem a 1 not infrequent in the absence of biliary hepat c and hemolytic disease 6 The content of bilirabin in the blood is the same in ectopic pregnancy as in other genecological conditions. HAR EYR MATTIES WID

Be endempfel Pieck E Repeated Extra Ute ine f eguancy on ti Left Side (Wied hilled k tg E t ter g idt et) Z i ibi f Gy k o 7 l 5

The author reports a case in which fifteen me the after simple ligation and extirpation of the left fal lopian tube fo ruptu ed ext a uterine pregnancy a econd laparotomy became necessary becaus of re cur ence of the typ cal sig s of extra uteri e preg nancy At the second interventio the ad era on the right side ne e again found inta t b t on the p sterior wall of the uteru at the upper p le of the left o ary which was adherent at th't point there as a blush nodule the si e of a valnut con isti g t firm onne tiet sue i dan intact orum earel ped by a cho on c membrane. This was either an o a ian o an abdominal p egnancy Apparently the stump of the left tube had gradu lly become suffciently patent to llo the pas age of sper matozoa

If as ef blatt R Repeat d P gna ey in the Sam Tube Two New Ca cs (U b w de h lt G dt t d lb T b Z e n Fell) it bl ten c S d a 7

The author eports it o new cases of repeated tubal pr gnancy on the same sed. In oce of 1st middle third of the tube was emo ed at the fit to pea aton. After another pregnancy, thick was ter min ted by spontaneous del very the p t e t was ope ated up no for tubal pr g ancy de elopan in the remain g late al p rito of the resected tube. It the second operatio the entire tube was remo ed

In the other c se the patient was operated upon frubal rupture. An nomplete salp sectoms was done s in the first cas a medial stump of the tube 3 cm fong be ng left. Two and a hall years later ne tubal per ancy developed in the tubal stump and an ope tion wa pe fo med fr complete removal of the tube.

Such recur ences of tub I pregnancy on the same sid a every ra e. The auth r has been able to fi d only nineteen cases rep ried in the lite ature. In

tubal pregnancy three times occurred in only two cases

The possibility of the recurrence of pregnancy in the same tube is due to faulty operative technique and disturbances of healing. In the author's opin ion it is essential always to perform a complete sal pingectomy with wedge excision at the uterine cornu and to cover the wound carefully with peritoneum

Hasselblatt reviews also twenty three cases which are reported in the literature as repeated tubal pregnancy but cannot be accepted as proved cases because the data are unsatisfactory or insufficient

He believes that the diagnosis of repeated preg nancy in the same tube is justified only when both pregnancies have been proved by operation or the findings at operation in the later pregnancy or at autopsy definitely indicate that there has been a previous pregnancy in the tube

kunze H The Pathology of the Umblilcal Cord (Zur Pathologie der Nabel chnur) Zentralbl f Gy taeh 1927 li 1832

In 828 births twisting of the cord around the fetus occurred in 156 (188 per cent) Intrapartum death of the fetus in a cases and asphyxia of various degrees in 10 cases were ascribable to this complication The author reports 1 case in which a fetal part was surrounded by the cord 4 times and cases in which it was surrounded 5 times. Injury to the child occurred in only 1 of these cases and was slight. In the cases in which death of the fetus resulted the umbilical cord was poor in Wharton's jelly It was less than I cm in diameter

The length of the umbilical cord was found to be 68 cm when it was twisted around the fetus once 70 cm when it surrounded the fetus 2 and 3 times 102 cm when it surrounded the fetus 4 times and of and 10.1 cm when it surrounded the fetus c times

The author reports also a case (among the 828 births) of circumscribed torsion of the umbilical cord After a fall on her side the patient noticed that the fetal movements became gradually weaker and finally ceased entirely. On her entrance to the clinic one month before the calculated time for delivery no fetal heart sounds could be heard. A dead macerated child was delivered spontaneously The umbilical cord which was 60 cm long showed four circumscribed areas of torsion One-1 5 cm from the umbilicus of the fetus-was o 4 cm in width The others were respectively o c and o 7 The umbilical cord made forty one cm wide spirals and was not adherent. Between its placental attachment and the site of torsion nearest that point the cord was from 15 to 4 cm in diameter The placenta was white and bloodless

Autopsy on the fetus disclosed no cause for the Spirochætes could not be found the points of torsion examination revealed ab sence of Wharton's jelly and marked compression of the vessels without complete occlusion. The portion between the placenta and the first area of torsion showed an ædematous swelling of W barton s

relly and dilatation of the vessels Blood was found only in the intervillous marginal portions of the placenta Elsewhere the vessels were empty The white portions of the placenta proved to be

compressed chorionic villi with bloodless capillaries The decision as to whether the torsion of the cord occurred before or after the death of the fetus may be difficult if there are no definite evidences of the time of onset. In the case reported the torsion occurred when the fetus was alive and coused its death Examination revealed cedema of the um hilical cord on the placental side of the torsion such as that described by Ablfeld and dilatation of the placental veins in this segment such as that described hv Kuestner CONRAD (G)

Corwin J and Herrick W W The Toxemias of Pregnancy in Relation to Chronic Cardiovas cular and Renal Disease 1m J Obst & Gynec 1927 TIV 783

To determine the effects of the toxermas of pregnancy on the kidney and the cardiovascular system the authors studied or cases at the Sloane Hospital for Women New York

The toxamias were classified as follow

 Eclamotic or acute convulsive toxemia Nephritic toxemia with prolonged and marked albuminuria or non protein nitrogen of 400 mgm per cent or more

3 Hypertensive cardiovascular toxemia -hyper tension without convulsions and without nitrogen retention or marked and prolonged albuminuria

The cases were studied before during and after pregnancy over periods ranging from six weeks to six years Tabulated observations showed that cardiac hypertrophy thickening of the brachial and radial arteries and certain eye ground changes were present in a large proportion during the toxemia and also during the follow up period Such changes suggest that some disorder of the kidneys or cardio vascular system antedated the pregnancy authors believe that a large proportion of these women had an underlying disease which was brought to light or aggravated by the pregnancy The majority of them were large overweight women with heavy muscles thick skin large features hands of a broad square pattern mascu line crines and spaced incisor teeth

Hypertension persisting for months or years was found in one third of the cases of eclampsia one half of those of nephritic toxemia and two fifths of those of hypertensive toxamia One half of the nephritic group showed marked albuminuma in the follow up period and one third of the eclamptics had some albuminuria PHILIP H ARNOT M D

Benda R The Present Status of Our Knowledge Regarding the Toxicoses of Pregnancy (Der heut ge Stand der Lehre on den Schwangerschafts toxikosen) Wed Alin 1927 xxi i 710

During pregnancy as well as during general bacte rial infections the organism has defensive substances

at its disposal Menstruation is brought about by a The processes of menstrua to in a menotoxin tion are a miniature picture of early preg ancy Many of the signs in the first weeks of pregnancy are to he attributed to the corpus luteum. The latter has great tality The internal secretory fu ctions of the corpus luteum gradually p ss ove to the pla centa the f ctio s of which are of fundament 1 importance Th tox coses f p egnancy a e not anaphyla t c phenomena neith r are they cau ed by the fetus The e occurs duri g pregnancy unde the influence of the gowing ovum a humoral cellu lar change in the organism as a whole (d stu ba ces of metabolism and of the glan is of inter al secre tion) As the result of the cell destruction which increase | dur ng pregnancy bec use of the crease in cell degene atio and regene ati n the e appear in the blood tream p ote n bodie which are f reig to b th the blood and the ndiv 1 ala devert a toxic action The degree of their toxicity depends upo the degree of their d spe s on Their points of attack

thet ene vous system

The auth re pect important results from the physicochemical approa b to the p blem of the va ous phenomena of pregnance Eucoll ditt io ion; is tonia is the mia iso onca (oncotic pressure) all pre ent facto s whe ch may be fimpor tance in the tempetation of clinic l dis see pic uses The kidneys concetive is us and sympa thetic nervou system which are respons ble for the constancy of the factors show du in given per neva change in their function hi h is manifestel by a li turba ce of the e changes uses fibed By further resea ch in this field it may be p shile to find a evil a tion for the arious phenomena is

ing during piegn cy

are chiefly the mooth musculatu e and the sympa

The potentially touc nat of preg ance is support dal byth find gsofexpe me tson inm! I
lienda believes that d to ication dur g p egna cy
is a funct in of the cli. He has found that duing
gestation the permeability of the capillares is
creased fir ons sivell as clioi injury to the
endothelium—c pillaropath gra idarum). Th
failu e of the barr er occus sonly in the second hillor
peg ancy induct art is then I then coof the first half of pegnancy it cours egul rhy an
in the of the secon I half aim stregulately. At
feal glico ura lact uras albumin acd m
and thromb of the capillares is celampsia may

be e plained by such nauries.

The reticul endothel I system is a still more active deto ict ng system because of it ability to store up sub to s. The author we sable t d mon strate d turbances due to it in the econd h If of pregnancy. They ere always most see e in the vicoses. From the fact he conclude that the reticulo-endothelial cells are also able to ab rb tox in s. In this space is the cells are destroyed but they are easly regenerated. If regenerate of does not occur the cli cal prefure of t vation de elps. In this sense the tox coses of preg, ney are the

man festation of the failure of the cellular detonication system. As the liver is the site of a considerable portion of the system the authors investigations seem to support the conclusion that the liver also may be damaged as regards its function even in the poeces co forormal gestation.

In conclusion Benda states that a the toxicoses of prignancy are probably die to a variety of interdependent cause—the ess little probability that the tixm of pregnan yill ever be found

М т ка (G)

Ruck M P The Treatment of Eclamps a with M gnesium Sulphate | g M M th 9 7

The chances of recove; of the clampt c mother vary n es h with the number of convulsions. Therefore the ob tetrician's first concern should be to top the c nvulsions as quickly as possible

I ollo wing the suggestion of Lanared their, is cases of eclampsia were treated with intravenous i jections of magnes um sulphate. Twenty is of the patients eceived only one njection but two injections ere given in si cases and three njections in two case. The usual doses as 2 cem of a roper cet solution. In this grup of cases there were no me ten all de this Other meth dis of treatment which vere sually tried first ere high collowing the companies and digital state of the discovery of the contract of the

In ten cases of e lampsis not t cated a th mig nessum subhate there ere t o mate nal deaths In the f ty cases in which the outcome as re gards the infa t was known the fetal mot it has so, 6 per cent. In the group treated the mignessum sulphate it was 45 x p r cent. Four of the five deaths of n Johann finants occur red in the g up of cs in which morphine and othe sed tives e e used instead of magne ium sulphate.

From these results the author conclude the tmagness m sulphate given intra e ously v int a m ularly aids i the co trol of convul ions sho te s the com and decrease the maternal detail mortality. No untow rd symptoms have lol lowed to use Do LOG TOLLE MD

Boula The Indication for the Interruption of P guards (L d in d i rupt d l g ) Gy &c i b i 9 7

Brouha d cu s st vo fact re which t times just for the interruption of pregnancy—pel ic disp oportion and ne cess ely 1 ge let s. With rega to pel c disprop t be save that following the days of for eful delivery p ematur elde service production of the formany very steep te Prince has been placed to the present day veryout tregard ngt. However, the present day veryout tregard ngt. How has earlied the present day veryout tregard ngt. Houchas et a quest o naire to a number of the leading obstetrens obstetrens obstetrens obstetrens obstetrens obstetrens obstetrens obstetrens obstetrens o

Premature delivery carries with it a certain fetal mortality which ranges according to various statis tics from 25 (Fabre) to 5 per cent (Gammeltoft) The maternal mortality (the morbidity could not be ascertained) ranges from 0.7 to 2.16 per cent

Casarean section on the other hand carries with at an infant mortality approaching zero the death of the child being rare. The maternal mortality is difficult to evaluate since it depends to some extent upon the occurrence of contamination and sepsis previous to the operation. In the author's opinion the mortality in uncontaminated cases ranges from r to 2 per cent approaching that of premature delivery Odagesco has estimated that of women who previous to a trial of labor are thought to present a disproportion between the fetus and pelvis which will necessitate easarean section yo per cent will be able to deliver themselves spontaneously. We are therefore justified in assuming that the mortality of section is no higher than that of premature delivery.

In contaminated cases the mortabity of exasican section is high (10 per cent) but the growing prefer ence for low section and the improvement in obstet rics (hospitalization pelvimetry and careful study of cases) should diminish the incidence of infection. The chances of rupture of the uterus along the line of the scar are ten times less following low section than following the classical section.

For cases of pelvic disproportion the author recommends a trial of labor first and if this fails a locastran section. In cases in which premature delivery has been practiced in former deliveries and the woman refuses to submit to section he consents to premature delivery.

When dy stocia is due to an excessively large baby premiture delivery appears to be justified when the patient is a multipara who has persistently borne large babies. In the cases of primipara: in which it is difficult to judge the size of the child Brouha favors a trial of labor followed by exsarean section if mecessary. MICHALL L. MASO, MID

Sprecher The Induction of Abortson in Syphiiss
(La pro ocazione dell aborto nella sissitica?) Clin
ostet 19 7 xxix 453

The author states that there is probably no syphilologist who has not been importuned at one time or unother to induce abortion in the case of a pregnant syphilitic woman. This request is made because of the belief that the child will be an alout or beir other stigmata of congenital lies that the discase in the mother will be made worse by the gestation and that during pregnancy the disease is not amenable to treatment.

Sprecher states that the induction of abortion in such cases is not warranted. Syphilis tends in itself to cause abortion and if it does not do so the infection is probably a light one and if proper treatment is given the child may be born without any syphilitic manifestations. Moreover an induced abortion may have more serious effects on the woman than continuation of the pregnancy to term. With mod

ern methods lues can be treated during pregnancy as well as at any other time

Michael L. Mason, M.D.

MICHAEL L MASON MID

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### LABOR AND ITS COMPLICATIONS

Davis C H The Evaluation of Methods in Obstetrical Analgesia and Anæsthesia with Special Reference to Gas Oxygen 1m J Obst & Gv16 10 7 W 806

Severe pain is not essential to childbirth. The obstetries should give his patient the maximum relief obtainable without sacrificing her safety or that of the infant.

When the pains are distressing the author ad ministers 11 gr of heroin or 1/3 gr of pantopon and 1/1/1/10 gr of hyosen. Half of this dose is given in the early stages of labor with moderate pain and short contractions and the rest is administered as it is needed. A severe labor occasionally requires an inhalation anesthetic or the colonic instillation of ether oil quinnine. When the labor is prolonged on account of a rigid cervix or an abnormal position of the fetal head additional hypodermics are often increasing—12 gr of beroin and 1 2 mg of of hyosein. Hypodermics should be avoided during the last two hours of labor as the combination of an opiate with hyosein may interfere with the respiratory efforts of the child at birth.

Inhalation anæsthetics may be administered inter mittently for long periods of time. In several in stances the author has administered introus oxide oxygen intermittently over a period of fifteen hours

Late in the first stage or early in the second stage of labor intermittent analgeans is begun with nitrous oxide oxygen or ethylene oxygen Ethylene is more inclined to slow up labor but has been used by Davis almost exclusively for two years

Nitrous oxide oxygen may be used for all opera tive deliveries except version and casarean section. The relaxation necessary for version can be obtained with ether or ethylene oxygen. For casarean section introus oxide must be supplemented with ether or local anaexthesia or ethylene can be used alone.

An advantage of ethylene over nitrous oxide is that the former induces anæsthesia when adminis tered in a mixture containing a higher percentage of

When pulmonary renal or eardiac complications prevent inhalation aniesthesia satisfactory results may be obtained by caudal aniesthesia or sacral nerve block.

PHILLIP II VENOT VI D

Zarate II Partial Symphyslotomy As Compared vith Cæsarean Section in Contracted Pelvis Twenty Cases of Partial Symphyslotomy (Symphysfotome partielle contre césareane seg mentaire en cas de bass n limite 20 cas de symphyslotomic partielle) Bull Soc d obst et de gynte de Par 1927 vv 436

Zarate states that partial symphy siotomy is absolutely harmless to the mother and associated with only a lon fetal mortabit). If therefore regards it as preferable to exastent section in all cases of contracted pelv with a conjugate of more than 8 cm therefore t tents call each in east the solid little per attention as performed by one of bis i ternes who extended the indications a little in the than eamed adviable to Zarate. As nine of the women are primpare erson on the use of foreign some necessay in over 50 per cent of the cases. In the cases of primpare the operation hould be done only when the car xi hated and there no dystocia from ontrict in 8 in the cases of the ele en multipa & forceps deli erv. In the cases of the ele en multipa & forceps deli erv. are es itated o ly once by no complete deliatation of the cervar.

In 50 per c nt f the cases the fetus had begun to suffer this 10 ng that the uth r s policy of expectant treatment h d been car e l to the l mit In three of the twenty case re e. ed the puerperium

as subfebri in me case pu spe al endometrit de lopel a i mo ne case there as a shept phle bit s i the leg lasting for only a few days. All of the patients in ed the hospital as emergency cases mo tof them with fe er aril very su pic ou finding on palpation. The chili h die l'as that of a primar ho had bee brught to the hospital folloing premiture ruptu e of the memb ance. In this cas theer is a sill tell game the child had begun to suff a lp lape of the c all cu red during the result of the membranes.

#### PUERPERIUM AND ITS COMPLICATIONS

Fuhin I iz A E ly R to si n of the Uterus After Dell y (D t i t t t t t t d g) t d g) t d g y t d P to 7 5

Th autho re ie 377 early puerperal etrol vi tuo so fth uterius ni 3 m n fin ooc necu tive del ere h fund a tempo a y o permane t etrodeviation in 30 (ab ut o per ent) In 24 the c dit on appea el d fin i by to be coursed hiden 5 t a sefe tely engenix 1 f 5 c = 0 ft in pregnancy n the 200 c se the c as not a single in tan e of etrole istion In the deliveres by to cepe etrode autono cc red only t e

Retr de lato gene ally occurs after the fist deli e y While the autho 'in eene es m which t occu re! for the fist time in a multipara it as generally temp ary a deasily reduce! In such cases Ite has seen all o multipara b had a retroversion after the fist deli ery and were free I om tafter subseq et deli cries

The commally ret overted uterus tonds to eturn to the riginal polition sooner or later after deler but in 5 cas Fruhinshofz was able too er come uch etro erso and in 3 these the coct on possible through later produces. Dung the puerperium the ute us can be easily modded

The author has found that retroversion is fa o ed hen the patient 1 all wed to get up early after delvery. In 3 of 4 cases it occurred between the sixteenth and the enty eighth days the period at which most nomen are alloved to get up. In it cases it occurred more than novek after the patient was up but in these instances was due to some intuition and the dent.

The part played by dorsal decubitus in retrode in torn has been e aggerated. When retrodevation occurs while the patient s in bed it is due to pressure from the full bladder rather than to the dorsal position. In y omen who ere obliged to stay in bed for from 6 weeks to 3 months after deliver retrofletion occurred in only i and this case was 0 e of the 5 in which the author was able to cure the etrodeviate or

The best treatment; manual replacement and massage. Them saage should be repeated every day or every other day and the pat ent kept in be la little longer than usual. Most retrodevated uters so treate I remain an in place after f om thirty to thirty five days but some may require two months of treatment. The author his had only a few failures. He emphasizes that the method described is slow and requires frest bathence. We are GM No. M.D.

Bruegelmann C Ob erv tion n Puerpe 1 Sepsis Patteul rly the Localizati n and Frequency of M tast ses [B b ht g b S p p r m l b d b look lat u d ll udiket t d Mt t n) M l l j f G b ll ok lat u d g b ll ok u d ll u d ket u d ll u d lat u d lat

Sepsis a caused not by multiplication of the brettern in the blood but by the constain or intermittent entrance i to the blo distream of bactern if more of infection. The nuther revens 300 causes of pure peral sepsis in 5 of high the citizent of plowed abottom and in 40 of high it followed le livery. Cases of uncomplicated septic abortion feedhomet its septical are evided. The total mo tality as 75 per ce t. In 187 cases of endo plieb its a dithombophib the mortality as 75 per ce t. In 187 cases of endo plieb its a dithombophib the mortality as 75 per ce t. In 32 cases of 1) imphangit. 48 per cent. In 36 cases of e docardius on oper cent. and in 44 cases with see all or un suri septic for her n. 87 and oo per cet.

In 8 per ce to f the cases the fection was de to a sight peof gramma usually a hæm lytte a lanser be streptococcus. In 107 per cent the e was a mered meetion. In 6 per ce to f these the anaerob teptococcus predominated and other bacteria we e.p. e.m. to considerably fe e numbe s. In thrombophiebt s. the anaer be streptococcu pedominated in lymphar it is the hæm I te streptococcu in lymphar it is the hæm I te streptococcu and in end carditis the anne obe tabablyo ecc.

In 75 per cent of the cases metastatic foc ver f med In 85 per cent the e foci were found in the lu s and s s per cent in the kidneys. In a smalle number of cases they de el ped in the splee liver to e joints muscles ski myocardium meninges brain eyes es parotid gla d'thyroid etc. In case with metastases the aerob c st phy lococci predominated.

Weinzierl E Total Gangrene of the Uterus During the Puerperium (Totale Gangraen des Uterus im Wochenbett) 1rch f Gyraek 1927 cxxx 5 1

Weinzierl describes a very rare elimical condition which usually develops after a prolonged labor ter minated by a severe operative procedure. An interval in which the patient's condition appears to be favorable is followed by a high intermittent fever lasting for weeks acceleration of the pulse a copious dark brown foul smelling discharge and cedema of the vulva and perincum. The uterus is found high in the abdomen and very sensitive to pressure and the general condition becomes very poor After from fourteen to twenty days possibly even later a foul smelling necrotic piece of the uterus of variable size separates spontaneously The temperature may then fill and a quick recovery result. The local heal ing takes place with atrophy and atresia of the uterus and sometimes also of the vagina Death occurs in about 30 per cent of the eases from septi cæmia or perforation peritonitis

A case seen by the author was that of a twenty two year old primpara with premature rupture of the membranes a generally nurrow pelvis a purulent discharge pointed condylomata weak labor pains a temperature of 38 5 degrees C and a large child in occipital presentation. An incision was made in the cervix and delivery effected with the forceps. The child was dead from hemorrhage of the brain. During the puerperium there were evidences of an infection of the internal genitalia and the pelvic perito neum and on the seventeenth day signs of general peritonitis developed. Laparotomy reveiled total gangrene of the uterus which lay entirely free in its serosal covering. The patient ded three days later. Guynstein (G. Guynskin (G. G

#### MISCELLANEOUS

Kosmak G W The Result of Supervised Midwife Practice in Certain European Countries Can We Draw a Lesson from This for the United States? J im W 1st 1927 ixxxx 2009

In a survey of the midwife system in obstetrical practice in certain European countries Kosmak was impressed by the high standards required of mid wives In Sweden and Norway the education and supervision of midwives has been in vogue for more than 200 verus and his always been netively spon sored by leaders of the European medical profession. The results of this midwife training are excellent the maternal mortality and morbidity in these countries being low. In the period from 1900 to 1018 the average puerperal death rate in Norway was 2.95 pcr 1 000 births and 85 per cent of the deliveries were done by midwives.

In the United States the maternal mortality rates are very high as compared with those of European countries. The greatest number of deaths are due to present properties expressed in the United States hospitals operative procedures are used in from 10 to 30 per cent of obstetrical cross whereas in the Scandinavian countries they are used

in an average of 4 per cent

Kosmak suggests that the Obstetrical Section of the American Medical Association, through its mem bership in the Joint Committee on Maternal Wel fare inaugurate and participate in a careful inquiry as to the cause of the high mortality rate. He sug gests also the development of community interest in better obstetrical care improvement in the teaching of obstetrics to students especially the clinical side and readily available postgraduate instruction of physicians Such measures he believes will result in a desire for better care of pregnant women on the part of the lasty and a corresponding increase in the dignity of the obstetrical attendant. He states that it is for members of the medical profession to decide whether a midwife system shall be a part of the obstetrical scheme in the United States Many states are ignorant of the number as well as the qualifications of midwives working within their boundaries When this negligence is compared with the carefully supervised system in Scandinavian countries the necessity for reform becomes at once evident

If midwife attendance is objectionable the medical profession must find a substitute for it or continue to have unjustified mortality rates in childbearing which are not in accord with the achievements in other fields of American medical practice

ABRAHAM A BRAUER M D

### GENITO-URINARY SURGERY

#### ADRENAL KIDNEY AND URETER

Lee B own R L and La dley J W S Pyel e nou Backflow J 4 W 1 9 7 1 tu 94

This article is an itempt to relate the work on piclove ous backflo that has been done up to the present time. Ash it summary of the I terature is presented together with some original observations made by the authors.

The first part of the rtucle giles a brief e position of the evidence profuce I by different investigators either: favor of or against the occurre ce of pyel venous bar kifo and contains tables showing the authors finding in a venty five specimens

In the second part of the arts is the auth rs attempt to explain the me ham m by which the phenomenon is produc d assuming that its ocur re ce has been project beyond reasonable doubt of Geterman MD

Belci r G W R nal D stortion 1ts Relation to Nephralgia J i W i o 7 lz. 66

While di tortion of the kidnes u utilly does not cause pai in s me cases nephralg a results f om the energo chment of neighbor g viscera or from post ope ative c catri at on a d atterioscleros s

When the po of i hich the patient complains can be produced by distent on of the pel is I the kidney on the same si le and the pyelogr m sho vs of stortion that it done hereas the pyelogram of the other kidney's normal the cause of the pan i probably intracental. Ho ever I the chas been previous mephrotomy or neph opesy this fact mu t be considered in the interp etail in of the pyel grams

If other diseas so'r distu bing conditt in a are asso cated with ren 1 d tort o they should be treated before surgical peration under take for th relief of the pain. The patie t should be kept under observation for a conside ble period and all other measures such as the use of abdominal supports should be tred first.

If n operation is pe formed decapsulation and sect on of the ner e i the ren l ped cle should be done f the funct n of the kid ey is of far from normal. If there is m ked atrophy and the symptoms are severe nephrectomy v the removal of the capsule is indicated. C Tr. ERS 5 14 MD

Crossed renal dystopia: a co genital an maly in the both kidney are on one s de but the u ter open into the bladder at the norm i sixes. One of the ureters uns across the spinal column to the opposite side. In a left crossed renal dystopia the

left kidney is displaced to the right side. As the to hadneys are close together on the same side during embryonic life they may become more or less fused. The condition is therefore somet mes called

un lateral fused kidney

One hundred and six cases of crossed renal dystopia have been reported in the Iterature To these the author adds a case seen by Krejselbug and a ca e of his on I in thirty one cases the condition can ed symptoms but in only fourteen was the diagnos made before operation. These fourteen ca es which i clude the author's case are reported in detail

Before laparotomy became general the diagnoss as a lays made at autops. In fourteen cases operated upon before the introduction of the roentgen ay the eve e fur deaths Of the lour teen cases agnosed c receitly before ope ation by means of the roentgen ray nine vere oper ted upon without a death. In all but two of these the co

dition caused symptoms

The secondary changes a e generally due to de fect ve drainage of une which lead to hydr nephross pyonephros or the formation of calcul The dagno s.c n be made by oentigen exam at on following the introduction of opaque sounds into the uretes To determ ne secondars changes in the ladiney pyelog aphy and pyeloscopy are the seasary II the dy topia not causing sympt mis it does not require treatment II to does uses symptoms the indicates are the secondary to the control of the control

Sice ses of an malies of the kidn's and ureters are reported. The first a c was that of an eight en year old gil with symptoms of cytt. Roentgen examinatio his ovel partial duplication of the ureter thin two opens gis into a single kidney.

th two opens gs nto as nige actuary.

The second case was th to da main vents eight years of a e ho had suffered since ch dishood form dysura. Romeigen exam nation should be at a considerate of the second of the second considerate of the second control of the seco

The third case was one of single tuberculous kid ney with double pelves and ureters in a woman twenty two years of age

The fourth case was that of a young woman with cystitis complicating pregnancy Roentgen exami nation showed a supernumerary left ureter

In the fifth and sixth cases there was a double left

In conclusion the authors state that the inflam

mation uronephrosis and pyonephrosis which are apt to result from such anomalies may be prevented by proper treatment AUDREY G MORGAN M D

Corbus B C Pyelonephritis and Its Relation to Non Gonorrhoeal Urethritls J 1m M 1ss 1927 lxxxix 2162 Eisendrath D N The Inlying Ureteral Catheter

In the Treatment of Pyelonephritis and Other Renal Conditions J im M iss 1927 ixxxx 2170

CORBUS states that non gonorrheal urethritis of bacterial origin is often the result of infection car ried from within outward rather than from without inward and that pyelonephritis due to focal infection with poor kidney drainage is often the cause of persistent non gonorrhoal uretbritis The treat ment should include the removal of focal infection and the establishment of adequate kidney drainage

LISENDRATH indicates the use of an inlying ure teral catheter for a period of days or weeks in the treatment of acute and chronic pyelonephritis anuria of the obstructive type severe colicky pain due to renal or ureteral calculi or kinking of the ureter in dropped kidney for side tracking of the urine following operation for vesicovaginal fistula and for the splinting of ureteral injuries incident to hysterectomy A small catheter is best as it per mits dramage alongside as well as through its lumen Lavage of the renal pelvis can be done as a daily supplementary measure but is of little additional ndvantage. If there is a tendency for the catheter to be expelled when the bladder becomes filled and is evacuated spontaneously the use of a urethral in lying or retention catheter will provide constant drainage of the urine accumulating in the bladder

Persistence of the fever of pyelonephritis in spite of an inlying catheter suggests extension of the infection to the perirenal tissue or such a severe degree of parenchymal involvement as to make operative intervention advisable C Travers Stepita M D

Hubleur M The Indigocarmine Test as a Method of Diagnosing Renal Tuberculosis (Lépreu e de l ind go carmin comme moyen de diagnostic de la tuberculose rénale) J d'urol méd et chir 1927

Under normal conditions indigocarmine injected intramuscularly appears in the urine in from six to ten minutes If the function of the kidneys is im paired its elimination is delayed and the coloring of the urine is less intense. In the usual procedure an injection of 4 c cm of a 4 per cent solution of the

due is made in the upper external surface of the but tock A normal indigocarmine test does not neces sarily prove that the kidney is intact anatomically but shows that it is functioning sufficiently well to keep excretion at the normal level

Wildholz divides renal tuberculosis into the following three stages (1) beginning tuberculosis (2) the stage in which there is considerable caseation of the kidney tissue and (3) the stage in which the parenchyma is almost entirely destroyed author reports a case in each stage giving the results of the indigocarmine test. He never found normal elimination of indigocarmine by a kidney that was incapable of performing its normal function and has never found poor elimination by an intact kidney Even beginning tuberculosis always causes some delay in the elimination of the die

The test is particularly important in early cases In these the elimination of the dye is generally retarded for from two to five minutes As a rule there is a certain parallelism between the severity of the lesion and the retardation but in some of the early cases studied by the author the elimination was greatly retarded The reverse phenomenon of little retardation in advanced cases has never been seen It appears that in early cases with great retardation the bacilli are particularly toxic but the author has never noted marked signs of nephritis in such cases

The indigocarmine test can be used also in kidney diseases other than tuberculosis. It is quick and simple and sometimes renders more prinful examina AUDREY & MOROAN M D tions unnecessary

Seres e Ibarz M A Review of Eighty Five Ne phrectomies for Renal Tuberculosis (Ense anza de mis 85 nefrectomías por tube culo is renal) Clin y lab 19 7 viii 353

The nuthor emphasizes the importance of an early diagnosis of renal tuberculosis and discusses the data that should be obtained before nepbrectomy is advised

He states that any tuherculous focus in a kidney tends toward propagation until all of the renal substance is destroyed. The symptoms referable to cystitis associated with the renal tuherculosis often subside The silent periods may be of considerable length but the vesical pain usually recurs Blocking of the ureter with destruction of renal substance often suggests a clinical recovery Occlusion may result from the lodgment of a calcareous mass com plete caseation or the formation and contraction of fibrous tissue The most complete exclusion results from fibrous tissue formation

Periods of clinical improvement in renal tubercu losis usually mean a pseudocure from total exclusion of the kidney true autonephrectomy or the exclusion of a tuberculous lesion within the kidney

The earliest symptoms of renal tuberculosis are increased frequency of micturition especially at night pain and tenesmus at the end of micturition pain radiating down the penis to the urinary meatus and pyuna

These ymptoms especially then associated with a history of tuberculosis elsewhere in the hody are sufferent to suggest renal tuberculos s Palpation often reveals tenderness in the reg on of the kidneys Albuminur a is almost always present and the urine is usually highly acid

On cystosopie a mination the bladder may sho tuberculous granulations tuberculous ulcers or canes of increased vascularization. The same lesions may be seen at the ureteral orifice. The ureters should be catheterized and separate specimens of urine should be collected. A differential renaf function test should then be made when possible. When this cannot be done because of the patient's intolerance to cystosopic manipulative procedures the condition of renal function must be determined from Ambard's constant. With MR ME & MD.

Since the introduction of the roentgen examina tion great progress has been made in early diagnosis of renal tumors. The author employs p eumokadesy in combit of in the pelography and uses yelos copy and nephroscopy as auxiliary rethods. He has been unable to find any mention of pyeloscopy and nephroscopy in the liter tute but with their aid has corr citly diagnosed all ease he has seen in ecent vers. He reports eight cases treated in the last three is 18.

three ve rs He tates th t if the tumor beg ns in the pa en chyma and is still small no change in e ther the form of the pel s or the outline of the Lidney may be isible in exam nations th pneumokilney If the tumor gro s toward the periphery there may be no change in the pelvis but pneumokid ev will re eal a vavy and a ymmetrical renal outline showing thit one r mo e nodules of the n w gros th ha c reached the surf ce The picture may be even clear enough to reveal the e act site of the tumor. If the n o plasm grows toward the p l t may di place the pelv s as a v hole or o ly some of the calvees com press ng them a as to give them cur ous shapes If it has invaded the pelvis the pyelogram will sho partial or complete lack of filling of one or more of the calvees or of the entire pel If the tumor has gro n u different direct on both the outline of the kidney and the picture of the pelvis ill be changed so that a combination of p cum kidrey with pye lography g es a ery lear p cture of the anatomical relationships If the tumor is large enough to be palpable pneumokidney generally not neces ary as the pyelogram will show whether it is a ren l tumor

By means of nephroscopy and pycloscopy the dynam csof the kidney can be stud ed—the mob fits of the organ v hen the patient changes from a lyng to a sitting position when he I reathes and v hen tumor 1 palpated. Thes method in combination with the layer of ovy gen around the kidney show the relations between the kidn 3 and the neighbon g

tissues and organs which are of importance in diter min ng the indications for operation In some of the author's eight cases of renal tumor

the e vas neither a palpable enlargement nor hæmaturia AUDREY G MORGAN M D

Do a E Further C ntributions on V il us Tu

Of sarty eight renal tumors operated upon in the clin of Illives six had the rongin in the pelv of the k diety or the u eter. Five, ere villous tumors. The etiology of these neopla ms is not yet de. Calcula a divilous polyps are so rirely associated that there is probably no rel tionship between them. With ple ty of the tumor, which is found in about half of the cases is vanously explained. The question as to whether the neoplasms are of multiple origin or are implications; for the pre-ent unsettled.

In spite of the pro te s made in the past few years the chinical recognit on of the c tumors; still dff cult With the e cet tion of cases n which eyes copie examination eveals a pap lloma bang g; to the bladder from the lumen of the ureter or. Il are found in the urine a po it; e d gans a before operation is rare. Occ slonally however the presence of uch tumors can be demon trated as in one of the author's cases hi peleography I en op rative expected by the contract of the

The author agrees with those who regard these tumors as mal gnant The histolog cal p cture 1 of only relative s gn ficance in this re pect si ce even though it appears be ign the papilloma co st tutes a precancerous cond to n Theref re c n ereative the apeut c methods cannot he cons de ed Theo et cally anephro ureterectomy 1 indic t d in all cases but this oper ton 1 pe formed r lat ly sel dom because (i) the e act diagnos; not af vays made before the ope ation and ( ) the operation appears to be too form dable for a sanguin tel patient Both of th se objections would be come hy a t o stage p ocedure b t p t e ts often refuse to pe mit a s cond ntervent o a d the ur geo f equently does n t ad se it be ause of the hope that a recur e ce vill not de elop

The best method of performing total nephro uneterectomy: It to is Marion in his his operation to is begun; it his his section the sciled of the uneters feed from below up yard sbgh sposs ble and the operation if the lumbar region of the lum

#### BLADDER URETHRA AND PENIS

Ma fort and Gl a Anothe C s of Contential Hyp rtr phy of the Neck of the Bladder (Un ou dhyp tr ph g t l d c l e 1 al ) J d l med t cl 97 0

The condition der discuss on was described before a recent meet ng of the French Urological

Society The new case reported by the authors was that of a man fifty five years of age who stated that for about twenty five years be had been able to urnate only 'slowly'. The number of meturitions during the day was normal. As a rule urination was not necessary at night, but in July 1912 as the result of a cold the patient was obliged to urinate one night fifteen or sixteen times. Thereafter he noted nothing abnormal for three years except that he sometimes found it necessary to make an effort to urinate.

In 1915 he developed hæmorrhoids and was then obliged to urinate during the night several times Examination revealed congestion of the aims and prostate. Subsequently, there seemed to be a relation between the condition of the hæmorrhoids and the difficulty in urination.

At first an effort was necessary at the beginning of urnation but in the period from 1920 to 1924 the condition grew worse and the effort on mictum tion was so great that some faces was generally passed at the same time. In February 1927 the patient had an attack of intense pain which he thought was kidney colic. Chevassu gave treatment for hladder spasm. Roenigen examination did not show any calculus and cystography failed to reveal a uretral reflux or diverticulum.

Cystographs was followed by an attack of intense spasm of the sphincter. The only nervous symptom was eraggeration of the patellar reflex. Marion interpreted the symptoms as those of congenital hypertrophy of the neck of the hladder. Chevassu then made another thorough examination to see if some cause for the spar m could be found in the urethra, but nothing was discovered. I ollowing extripation of the hypertrophical neck of the hladder the patient was able to urinate normally within twenty five days. AUDREY G. MORGAN M.D.

Craig G and Brown R k L The Surgery of Epithelial Bladder Tumors Med J Australia 1927 Supp 11 p 337

The authors discuss epithelial tumors of the hladder from the standpoint of the results of early treatment the relative degrees of malignancy of the neoplasms and the results of treatment by surgery diathermy and \ ray and radium irradiation

Up to the beginning of the present century the results of the surgical treatment of epithelial tumors of the bladder were poor. Relief could be given only by the administration of opiates. Gradially the prognosis became improved by the use of the cystoscope and fulguration. Beer of New York was the first to treat these tumors under visual control by means of heat generated by the high frequency current und conveyed to the neoplasm by an in sulated flexible wire passed through the operating cystoscope.

The cause of these neoplasms is not known but their incidence is high among workers in the anline dye factories of Germany and four times as high in men as in women. They occur most frequent by between the ages of twenty and sixty years

The diagnosis rests largely on the cystoscopic findings. A very constant sign is hæmaturia

A successful result from treatment depends largely on repeated follow up evaminations and re treat ment of such small recurrences as may he found until complete eradication of the disease has been at tained. When the tumor is small and of the papil lomatous type the treatment may be carried out through the operating cystoscope unless the growth is situated iround the vesical neck. The lurger growths demand open operation with destruction of the tumor by powerful diathermic currents. Some of the larger sessile tumors are very difficult to treat even by evision.

# SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES IGINTS MUSCLES TENDONS ETC.

Albee F H My fascitis A Patl ological E plana tion of M ny Apparently Dasimilar C nd tions 1 JS g 197

Myofascitis is defined by the author as a focal manifestation of a to ic condition of the blood with inflammation and symptoms at the fascial insertions in bones. When the fascial insert ons are placed under traction the symptoms a e-greatly i creased In about 90 per cent f the cases the towns are ab sorbed from the colon. The condition may be manifested by lumbago sacro iliac lesion ac at ca tennis elbot o pain in the feet

The treatment consi ts in the removal of f ci of infection lavage of the colon and a lov esidue diet

FLEV J B R MEJ R M D

Languel A B Ti e Dynamics of th Functions of the Hand with C n iderations as to M thods of Obtaining the Position of Fun tion by Splints Wd J 1 / J 9 7 1 598

In this paper which was one of a se i s of post gra luate lectures delivered at Melbourne Aus tralia Kanavel emphasizes the importance in the treatment of lesions of the hand of a kno yledge of the function as ell as the anatomy of the hand

The primary actions of the hand are flexion extension abdu tion and a liuction of the fingers apposition of the thumb to the fingers and rotation of the hand. The actions of the wri t are supple mentary to those of the hand Loss of any of these actions leads to impairment of function

Flexion of the fingers is carried ut by the flexor terdons assisted by the lumbr al and s m st effective when the vrist is dors fl xed. In dorsi flex on of the vrist passive tens o of the fle o s is increased the tension of the extensor mu cles s relaxed and the pro imal phalanges ar held par tially flexed Flexion of the pro 1 nal phalanges is due to the lumbrical muscles and in dor iflex on of the vrist the pover of the lumbrical muscles is at its ma imum

Adduction and abduction of the fingers are a ried out by the interesseous muscle a ded by the extensors and flevors. In order to pe erve this action it is vell during t eatment of the hand to keep the fingers slightly engrated fr m ach other about mids ay bet een abducti n and dduction

Flexion of the thumb is max mal when the thumb is abducted Apposit on of the thumb to the fi ger is one of the most important acts us of the hand While it may be taken o er to a ce t ne tent by the flexors and adductor of the thumb it i hy no means perfect under such circumstances During

treatment the thumb must be kept not only ab ducted but also rotated so that its volar surface faces the volar surface of the finger tips

The position of function of the hand is dorsi flexion of the vrist fle ion of the fingers to 45 de grees slight separation of the fingers and abduc tion and rotation of the thumb to bring it in a po i t on of apposition. If the hand I maintained in

th's position during treatment minimal movement ill suffice to give function hen there is a con s derable loss of movement from nerve lesions or fibrosis Moreover with the hand in this position it will be easier to apply splints and apparatus to b cak adhesions and obtain function

Duri g the acute stage of a lesion of the hand spfints may be used to maintain the hand in the pos tion of funct on Later they may be u ed to ir ng the hand into the position of function if th as not done during the treatment or to b eak up dhes one It is essential first to get the hand into the proper position. When this has been accompl shed various attachments may be added to the spl nts to produce flexion extension abduction or rotati n

The splints used by Kanavel are made of 3 mm of hard aluminum and are covered with p ano felt They are hied to the hand by straps and buckles Rather than have a manufacturer make the e spli ts Lanavei prefers to make them himself 11 ord r to adapt them exactly to the requirement of each e e

The splint to produce dorsiflex on of the wri ti an aluminum plate made to fit the volar su face of the forearm and cut out at the lateral s de of the wrist and under the thenar eminence to allo v b duction and rotation of the thumb At the vrst th splint is cocked up to raise the palm. From th fateral side of the palmar plate a rolle i aluminum tube projects outs and to re t bets een the thumb and the palm and hold the thumb in abducti n The angle at the wrist is increased faily as dor flex on p ogresses. Ab luct on and rotat o of the thumb a e produced by means of an ela tic band fastened through a slot on the ulnar side of the spl at an I sl pped around the proximal phalant of the thumb During the t eatment for the acute stage of the les on the spi nt may be worn with or thout the thumb attachment

To correct extension deformity of the finge s a U shaped har a attached to the undersurface of this spl at Leather loops are fitted to the finger and a gentle pull is maintained by means of ping strag and buckles The U bar 1 moved for ard or hackward depend ng upon the angl of p ll n cessary to correct the deformity. In the be, n n ng of treatment for severe exte s on deform ty the author occasionally employs the meth d of

Dickson in which a plaster cast is applied to the forearm and hand and the fingers are gradually flexed by means of pads of piano felt forced between

the splint and fingers

When there is flexion deformity of the fingers of moderate degree and the proximal phalanv is flexed a dorsal splint may be used. This splint fits the dorsum of the forearm and hand and is dorsi flexed at the wrist. To the back on the dorsum of the band are riveted arms of aluminum which project over the fingers and are slightly separated from each other. The fingers are pulled toward these arms by means of springs or elastic bands. If the proximal phalanx is extended and the middle and distal phalanges are feved the dorsal arms are continued out for some distance beyond the ends of the fingers and bent forward so that the pull of the tension will be in line with the forearm. There must be no dorsal pull.

The thumb is usually drawn into position by means of springs or elastic bands attached to an accessory arm which is riveted to either the volar

or the dorsal splint

Too great tension must be avoided. The desid cratum is moderate tension over a long period of time. As the trophic condition of the hand is usually poor care must be taken to prevent pressure necrosis. The patient should know the ration ale of the treatment and should be taught how to take the splint off and put it on. The splints are worn for from one to three months. In some cases they may ultimately be worn only at night

MICHAEL L MASON M D

Lusskin H and Sonnenschein H Low Back.

Sprain The Sacro Iliac Syndrome im J

Surg 1927 111 534

The authors report that a study of cases in which fractures of the pelvis had caused death showed no evidence that the upper portion of the sacrum had moved forward on the sacro liac joint. In some cases however the liac part of the gluteus maximus and hamstrings may pull the lower part of the sacrum forward shearing the joint surfaces. This results in injury to the cartilage and a true traumatic sy novities or arthritis.

In acute cases of such injuries the treatment should consist in rest of the part obtained by the application of adhesive strapping or a plaster of Paris cast. In chronic cases with spasm of the ham strings the hamstrings should be stretched and the patient then turned over and sudden direct pressure applied over the upper part of the sacrum. For these procedures anæsthesia is required. A plaster spica should then be applied for three months. In cases of recurrence operative fixation must be considered.

\*\*LENEY J BERKHIELER W D.\*\*

#### Zadek I and Jaffe II L Cysts of the Semilunar Cartilages of the knee irch Surg 1927 xv 677

Cysts of the semilunar cartilages of the knee were formerly believed to be ganglia resulting from soften

ing and colloid degeneration of tendinous or perios teal tissues about the knee produced by disturbances of nutrition following trauma Phemister favors this theory but does not believe that the cysts are primarily of vascular origin or invariably associated with trauma. He and previous investigators failed to find endothelium lining the cysts but Zadek and Jaffe attribute their failure to the fact that they examined only large cystic areas which are not altogether typical Ollerenshaw was the first to find flattened endothelium similar to synovial membrane endothelium and to suggest the develop mental origin of the cysts He believed that the cysts are the result of small endothelial nests in cluded in the fibrocartilage during its development which began to secrete and became distended following trauma

From a careful histological study of the smaller cists Zadek and Jaffe conclude that such cysts are of congenital origin. They base this conclusion on (r) the multiplicity of the cysts (2) the occurrence of papillary synoval inclusions without cyst formation and (3) the absence of recent or old hamor

rhage within the cysts

They state that there is no evideace to support the view that the cysts are formed after tearing of the menicus followed by invasion of the spinovial membrane. The theory that the cysts are ganglia or are due to the degeneration of tissues beneath the cartilage and the joint capsule is refuted by the presence of an endothelial lining in the cysts of small or medium size.

The authors report the case of a young man who developed a cyst of the internal meniscus several weeks after he wrenched the knee

ANTHONY F SAVA M D

#### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Bristow W. R. Arthrodesis Proc Roy Soc Med Lond 1927 vu 111

Bristow suggests that arthrodesis be considered for cases of tuberculosis of the knee in children in

which the bone is affected

For old tuberculosis of the hip with deformity and hiprous anhylosis he prefers rathrodesis to osteotomy because the deformity is apt to recur after osteot omy. In the hip the intra articular method is hable to fail. Birstow therefore uses the procedure devised by Hibbs in which the anterior two thirds of the trochanter is transplanted with about 2 in of the cortical bone of the shaft of the femur. This bone graft is pedunculated and left with the upper part of the trochanter attached by periosteum. The free end—that taken from the femoral shaft—is laid along the superior surface of the neck of the femur which has been bared for its reception and is firmly wedged into a groove cut in the illum above the accetalular rim.

Bristing emphasizes the value of arthrodesis also in the treatment of joint pain following fracture For old malunited fractures of the ankle—ith evidence of traumatic or mechanical arthritis he regards arthrodesis as the p ocedure of choice

For spinal fusion he recommends the operation devised by Hibbs S C WOLDENBERG M D

Ingeb igtsen R Th Treatment of Sept c Infecton of the knee (U b d B h dl b d s P) thr g ) 1 t h g S d 9 7 ku

In exceptional cases of septic infection of the knee repeated putctures may bring about a cure but even in cases without complications a throtomy is plob

ahly the cor ect method of tr tment
In seven case of septic fection without fracture
of the hone end act; e moveme ts we e carried out
according to the Willems method. The result was
full mobility of the joint in five cases and only slight
restriction of mobility, a two cases. No other neth
od drained the joint so c mpletely as the active
mo ements.

Acti e movement of a drain g sept c knee is not painful but movement of a joint than abscess in

the capsule is associated with pa

The movements must be active. Only active movements are able to empty the knee joint completely. During such movements the temperature falls apidy and the general condition remains good.

In cases of abscess of the capsule periartical abscesses cao scarcely he avoided but after they are opened and drained they do not co stitute a contra indication to continued movements

The t eatment requires ery closs attention on the pat of the su geon and great patience od endurance on the pirt of the nu sing staff. It can be used in the cases of adults as well as n thoe of

children

I r septic infection complicated by fracture of the
joint active mo eme is cannot be ecomme ded
In three such cases treated by the author e ection
was a ed out with a sail of to yees it

The author reviets t enty cases of seve e suppurati n of the knee ope ated upon in the Marhurg Clinic reporting the indications fo the perative method used the after treatment and the immediate and late esults

To obtain d ain ge of the poste 1 cas ty of the knee Lae en in k deep lateral c on on each s de chosels off the poternoly slop g cartilage cover d po to of the fenoral c ndyl s up to the intre ndylo df ssa d remo es hoth menu ca with a t otome. The cruc all ligaments the nermana as a med and 1 g s ptum which hold the tibla t ghilly to the fmur As the ante or pa ts of the pot t d the pot tell art but sa a e all o dely opened on hoth de cl e to the patella the r ten ton of exudate no l ger poss hile. The joint the name of exudate no l ger poss hile. The joint the name as the content of the post that the post that the post the content are the content and the content are the content are the content and the content are the conten

presents a widely open its ue space which is easily drained and packed. It is necessary to make the late al incisso si deep enough so that there ill be no depression in the soft parts behind the joint in sib the puss can accumulate. Great care must be taken not to injure the posterior capsule of the joint in the operation.

In thety enty cases revie ed asp ration and it gas to mor b lateral anterio arthrotomy had been done about result or the process was so severe that there was fittle prospect of a successful outcome from the e mo e conservative procedures alone Fou teen of the tive ty cases we ecured. In five a thigh ampitation was necessary later. One patent of edo preumon seven weeks after the chis elig off of the condyles. Another succumbed three weeks after amputation of the thish from a stretch

coccu septicamia which developed from an abscess Horizontal chi eling off of the femoral condyles should be restricted to cae sin v bich puncture in rigation or anterior opening of the joint has eben un uccessful or because of per tricula perforation with phlegmon or general sepsus a cu e can ot be expected from conse vative treatment. With it cas is geopreience the author h is given primary esection of the condyles and it creatingly wider application. This operation was performed as the primary procedure in eleven of the cases revie ed in inne the knee jo it was first op ned by two lateral i ci ions. Following the operation complete analylosis of the knee is to be expected.

In the after ca est: essential to fiv the joint in the position in which analysism is to occur the tine view on with all bit fle ion. In the cases reviee det his pastion was obtained by means of a plaster bandage plaster of reed with metalbands wire xtension paratus Taylant Brownspint or splint deviced in the Marburg Clinc. In no case vas one from of solint suffice and

In no case was one I rm of spints sume ent.

Of further patents with bony a kylo a ten
could b trace! The results in these ten demost
stated that I adults of I, slight sh ten rag ill
occur f the knee becomes a kylosed; mor or be
evten ion. The operation removes no ho e in the
long axi of the leg. If yever slight dee ess of
shortening may result from devatio s.1 the axi
of the lower leg in the form of ge u algum r
varum or sight subjux t in I fiel & ee point

The author reports lo three cases of rection of the anterior condyles free even upprairies at thritis of the knee; thidren The importance of possible mijury to the epiphys all have of the femur is often outweighed by the se iousness of the dease. If the le can he sa ed there is a marked tendency to ard contracture in posit of feer on The freque ty observed is blu aton of the that is the interest of the contraction of the contra

In co clusion the author state that deep lateral
c and hori ontal ch | g off of the condyl s
can be used succes fully al o in seve e syno ial

tuberculosis with mixed infection of the knee joint.
The results of this technique are apt to be particularly good in such cales when the patient 1 young.
DESCRI (Z)

Pouzet F Operation in Tibiotarsal Tuberculosis of Infants The Late Results (Lopération dans la tuberculose tibiotarsenne de l'enfant es resultats élormes) Re d'orthob 1022 xxxiv 3

The author reviews thirty nine cases of tibiotarsal tuherculosis which were treated by open aperation in the clinic of Nove Ios erand. In twenty five ca es the operation was performed late after mure or less prolonged con ervative treatment. The four teen early operations were done in ca es in which there had been no immobilization or immobilization for three month, had been of no avail and the lesion was of relatively recent development. In eighteen of the twenty five late ca e- the operation was per formed because of aggravation of the le ions with exten ion to the subastragalar region and calcaneum manifested by clinical signs the roentgenngram or the lack of improvement after prolonged immobiliza tion. In even cales the indication was early recur rence usually following a relatively slight primary accident

In the fourteen early cases operation was per formed because of the events of the local lesson in twelve case acute symptoms in one case and the importance of the lessons revealed by the reentgeno-

gram in nne case

A review of the hittors of the treatment of tibiotarsal tuberculosis on Nove Jo erand s ervice how that in the period from 1896 to 1993 operation was performed in more than 3n per cent of the ca es and astragalectoms was done in about 60 per cent of the operations. In the period from 1993 to 193 operative treatment was given in only 37 per cent of the ca es and only 3n per cent of the aperations were astragalectomies. The change was due to the efficacy of con erative treatment.

Nove Josserand removes not only the caseous bone but also any to use that appears at all doubt full. In the technique used by him the pernneal are ectioned for wide exposure of the subastragalous and astraralo caphoid area as for double arthrodes. After section of the ligament the foot is luxated inward. The astragalus is then raised with a bisioury and the calcaneum caphoid and cuboid are examined. When these bones are discased or of doubtful appearance, they are extensively hollowed out only a shell being left. Resection is dinne only when a particularly evere lesion extends beyond the limits of the bone. The establishment of adequate drainage is regarded as of the greatest im

After the operation the foot is put up in a circular plater-of Paris, cast in the position necessary to make the mortic abut against the explaind. The catileft on for one month or if there is no uppuration for two rooths. At the end of that time the drain are graduall removed. When the foot

has become sufficiently solid it is given a daily an tileptic hath if suppuration has occurred.

In the cases reviewed the astragalus was involved in thirty nine the tibia in twenty the calcaneum in twenty five the caphoid in two and the cuboid in two

Changes in the calcaneum were found in eight of the early ca es and eventeen in the late cases and lesions in the tibia in eight of the early cales and fourteen of the late cales

The length of time neces ary for complete healing of the fistulic and the resumption of weight bearing averaged eleven mintbs after astragalectomy and thirteen month after tarsection. In favorable cases this was sometimes reduced in six or eight months

The previous envirence of an ab cess or even of a fistula did not greati, modify the rapidity of convalex-cence after astragalectomy but prolonged it in an average of twenty months after tarsectomy. De lay of reconvery cemed often in be due to the per stence of foci unrecognized at the time of aperitoria. In four care supplementary neprations were necessitated by lessons of the tibia calcaneum or aphind that were not recognized at the time of the first aperation whether it was performed early or late.

Age has an influence on the duration of the treat ment. Children under ten years of age healed more

quickly than plder ubjects

Of the thirty nine ca es a cure was obtained in twents eight ( 3 per cent) and will probably be obtained all in one cale that has been treated com paratively recently. Nine of the patients died ome of them within five months and the others after from ten to twenty four months from cachexia or associated lesions. This mortality of 23 per cent is high but is to be attributed more to the events of the condition than to the operation it elf. In the fourteen ca es which were aperated upon early be caule the eventy of the lesson indicated that a cure hy immobilization would be impossible there were even deaths-two in six cales treated by as tragalectomy and five in eight ca es treated by tar ectomy - whereas in the twenty five cales operated upon late there were only two death -one in eight cases treated by astragalectomy and one in even Therefore the teen cases treated by tarsectomy mortality was 50 per cent in the first group but only 8 per cent in the second. In a previou eries of cales treated by immobilization alone the mor tality was 4 5 per cent

In four of the twenty eight surgically treated as in which a cure was obtained there was a slight late complication in the form of a small abscess which produced a fitula and disappeared following the extension of a equestrum either pon taneously or by curettage. In the four case this complication developed one and a balf ten eleven and fourteen years respectively after the operative cure but in no instance did it have erious cone quences. The incidence of such late complications a slightly briefr (14, per cent) in case treated by

operation than in those treated by immoh lizat on

(6 per cent)

The author concludes that even in the most favor able cases operat on does not y eld as perfect results a immob lization. In a previous art cle he rep rede that of pat ent treated by mmobilization alore 30 per ce t ha e hormal funct on and 45 per cent ha e very good function.

Pouzet conclude also that operation does not offer any getter permanency of cure. In the cases treated by immobil zation all ne the incidence of late recurrence vas only 3.5 fer cent and local small complicatio a vere less frequent than in the cases treate I su gic. Il. The general condition was the

same 1 both g ouns

A rule heal goccurs me e quickly in the ca se operatel upon that in the of traded hy immobilization but it doe in to occur a quickly as after other rejection, uch as those in the knee. Especially in severe cit e it i impossible to obtain he hing hy p imary intenti in. The cavites are too lyige and it gular to become filled up in a short time. Nea ly prol nged d ainage is neces ary. Moreover quick healing in prevented by the poor general con

dit on f the pat ents who a e t eated surg cally
E pecially in the case of young patients the mor

tal tv f oper tion is high

The uth r bele es th t mmobilization shuld he g c a tho ough trial first a d that ope at on hull b pe formed when mmobilization fal or t ev let from the complications or the grivity of the o ous lessons that a good result cannot be xpect. I f om conse vait e treatment

He tates that the indications for oper tion can be e tended only by careful in estigation of the clinical or entge ograph c. ig s upon which the progn is of the le on may be based. The life ent at n fc se in hich mmobil zation will pobly re ultima ure from c. se in which operation will be nc. ssay later. W. u. R. C. Bur ET M. D.

#### FRACTURES AND DISLOCATIONS

And el O 1 It Pos ible to D termine the Ag of a Fracture by Ron tg mExamination and if So to What E t nt? Il F acting of the poby it (S n q lput èp hl dt m e lb ba il j to ad g h letà d n f ttr Il L f tt pi ) Ch d g d o [1 0,7 3]

The author ecently published an article on the content apper rance of factures of diff cert ages. He has fou dt dat the age of a fracture is indicated by the dist ct es of the outlines of the fragments the degre t pacity the demarcation of the callus the press nee r absence of a structure vith a the callust tell the apper rance of the fracture link and the degree to which the lamellar structure of the bone is re est bill stell.

In the at le he d cu ses fractures of the epiphy Roentgen v sibility of the callus beg ns about twenty dy after the equipmy Calcufication pro

gresses until after from four and a half to five months the outlines are distinct and the callus has reached the opacity of normal bone. The callus does not beg a to show a lamellar structure until the end of the first year. The line of fracture issays cars completely or almost completely in eight months but re apper salater as a scar which is indicate i by great er density of the bone.

The roentgen picture of fracture of the ep physis defers from that of a fracture of the daphysis in that during the first period the callus in the former type of fracture calenties more slowly but later calents more rapidly until it reaches the opacity of normal bone. In fracture of the daphysis the callus is generally smaller and the fracture hine dispersion that the Darkey of Work of the Norman Control of the Control of the Control Darkey Control of the Control o

## Pfab B P eudarthroses (U be P e darth os ) D t h Zt ch f Ch 927 c 7

In 433 cases of fractures of long hones and the patella which were seen during the five year period from \$920 to 19 5 a pseudarthrosis developed in 40 (7 per cent). The cases 1 cluded fractures of the lowering the forearm the neck of the femure the himses and the patella and one fracture of a finger

Of the fractures of the leg t elve were compound and all were produced by g eat force With one ex ception the resendanth oses occurred in the lover third of the leg In t o cases the cause was a marked dislocation of the fragments Int oothers those of patients over fifty years of age it vas poor regenera tive power Operation was performed in se enteen cases One patient who was fifty nine years of age as given a supporting apparatus. Nearly all of the operations were performed within from three to e glt months after the accident Etbe anæsthes a was employed The operations consisted in sub periosteal preparation of the fracture end the removal of connects e tissue and cartilage fragments exposure of the medullary cavity and careful adaptation or wedging of the bone ends. In ten cases s mple suturing with silver wire or rustless steel was done. In seven a wedge including perios teum cortex and medulla was sawed from the fractu ed end of the t bia displaced upward into a groove made in the other fragment and fixed 1th wire sutures (Albee's fracture plast c of the t bia) At re examination the rteen of these cases showed firm union In four the bone still gave under strain hut with the aid of a Brunn splint the pat ents were able to work. The compensation allowed in the latter cases was for d sab lity of from 5 to 80 per

The prognosis has poorest for the pseudarthroses of the f earm. In these cases also the fractung force had heen great. All of the seven fractures are compound. Operat on was performed between the third and fifth month, after the accident e cept macase of sequestrum f rmat on in which it has not doe until fifter two y are. The poor tendency to heal was due cheff, to marked displacement of frigments. All of the cases of pseuda throsis of the

forearm were treated first by another surgeon. In I fab s cases of forearm fracture in which a tibial implant was fixed with wire at the primary opera tion no pseudarthroses developed. In four of the seven cases of pseudarthrosis simple wire suturing was done. In two a tibial implant was fixed by wiring and in one an implant was fixed by cateut. In three of the seven cases firm union was obtained In two cases compensation was received for so per cent In one of these there had been a co incident fracture of the humerus and injury of the radial nerve. In the other the radius still gave way under stress after the operation but the ulna was united firmly Of the patients without firm union one received compensation for disability of 50 per cent and another forty five years of age received compensation for disability of 65 per cent because of greater loss of mobility of the arm The third nationt broke his arm again three months after the first operation and at the second operation the medullary cavity was found to have become closed again The medullary cavity was re opened and a tibial implant was introduced. With the aid of a supporting apparatus, the patient is now able to do any kind of work but is receiving compensation for 25 per cent disability

The four pseudartbroses of the upper arm occurred in patients between thirty and fortry years of age. The fractures were all compound. In three cases operation was performed about four months after the accident and in one after an interval of fourteen months. In one instance it revealed the interposition of muscle tissue. In three of these cases it consisted in intramedullary pegging the fitting together of step like notchings and fixation by wire suture. In one case periosteal suturing was done. Three months later firm union was found in all of these cases but the patients received compensation for disability of 10.40 is and so per cent for three years.

In the five cases of pseudarthrosis of the tibia operation was followed by firm union. The pseud arthroses of the neck of the femur occurred in patients over sixty years old. If none case osteotomy was done but in the others no operation was performed. The patients are receiving compensation of disability of from 40 to 80 per cent. The one patient with pseudarthrosis of a finger refused operation.

Of forty pseudarthroses thirty four were operated upon and in twenty six (76.4 per cent) of the latter firm union was obtained. In three cases the pseudar throsis was caused by to too wide a gap between the fracture ends with the interposition of muscle ti sue Firm union was rarely obtained in the cases of patients more than fifty years old. The seventy of the trauma and the correspondingly complicated nature of the fracture were important factors in the development of the pseudarthroses.

The author advises complete immobilization of the fractured part Early strain on the broken bone before it has completely united favors the development of pseudarthrosis. The importance of a diet

nch in vitamines and of the administration of calcium and phosphorus is emphasized. The use of foreign material and dead tissue is condemned. A transplant may be fixed with wire or kangaroo tendon. The Borchardt instrumentarium for the Albee operation is of value.

An attempt to cure a case of pseudarthrosis of the lower leg by periarterial sympathectomy was un successful

HALMANN (Z)

# Ely L W The Internal Callus An Experimental

As it is difficult to demonstrate internal callus in healing fractures either experimentally or by roent genograms if the fracture is complete. Ely solved the problem by producing in injury to the shaft of a long hone without breaking its continuity.

In experiments on eleven cats the interomedial aspect of the thias was exposed aspectacilly the periosteum incised and a drill hole 2.7 mm in diameter was bored into the marrow canal. In six animals the wound could not be located litter. The five others were examined from fourteen to sixty nine days after the operation.

The first stage in the reparative process was filling in of the hole by fibrous tissue which was continuous with the periosteum and extended deep into the bone marrow. In this tissue bone trabeculæ were laid down without previous cartilage formation. In some instances the trabeculæ were most numerous near the cortical surface and in others in the hole or in the marrow beneath the hole. Some bone formation occurred outside the cortex but this was not active in the repair of the defect. The photomicrographs show definite evidence of bone formation also on the cut margin of the cortex. Rurn Soro Hall, M.D.

# Osgood R B Compression Fractures of the Spine Diagnosis and Treatment J 1, M 1ss 1927 lyxxx 1563

Compression fractures of the spine occur most commonly in males in the active period of adult life. They, constitute 40 per cent of all fractures of the spine. In the great majority of cases the body of only one vertebra is crushed. In from 70 to 80 per cent of the cases the vertebra involved is the eleventh or twelfth thorace or the first or second lumbar vertebra. In from 50 to 60 per cent it is the twelfith thorace or the first lumbar vertebra.

The complications of compression fracture of the spine include neurological symptoms fractures of the laminæ fractures of the transverse or spinous processes and fractures of the bones below the knee in cases of fractures sustained in falls an examination should always be made for tarsal fracture. The mechanism involved in spinal compression fractures is acute hyperflexion of the spine

The early typical symptoms of compression fractures of the spine may be masked by the general shock and the pain of associated bruises and fractures. The late symptoms are serious discomfort disability the development of a kypbos, and pain local ed in the injured area and rad ating down the extremities These symptoms may not develop unt I month or yea s after the injury

Fracture of the sacrum whether impacted or cru hed fractures heal quickly and permanently vitb very little treatment. In fractures of mo able vertebræ v thout fractu e of other elements than the body of the vertebra there s a full return of function in from four to sx months follo ing recumbency hyperextension vitb the spine immobilized in a plaster jacket or the use of the W liace spinal bed At the end of six or e ght weeks in uch ca e the upr ght po tion and ambulatory life may be r sum d graduall the spine being pro tected for from ten to sixt en veeks lo ger by a stiff removable jacket. In the last five or six ecks of the t e tme t physical therapy may be given. The author has had no experience of the early cases. complicated by fractures of the lam næ without neu ological s gns Late cases with disability a d pain p ogre ell with ut ope atio In Osgood's op mion a trial of conservati e t catm nt is ad i able n many ld c ses as well as in the m jority of AN HONY F SAVA M D carly cases

Gr m nn M The Teatm nt of F etu e of the
Tho ne e and Lumb r V tebree (Z Bh d
lu g d F kt n d B t nd L d n b t)
Z i lbl f Ci 9 7 l 5 4

In fractur of th thoracic nl lumbar e teb me hoperat on his littlechance for success. In case of total le ns operat on 1 of to b considera! In part alle ns the cause of the symptoms not comp essi but contu on of the c rd Verteb all frequency by the best of the symptoms are unally treated os eservative by the best est in a suit ble positin but there is a different of the confined and is to whether after the p tient is up the spi leolumn should be up to ted by a bace.

Thea the reports fur cases of vertebral fractures which illust te some of the difficultie encountered Oe visithe case of a sixty xive a old laborer ith a compression fracture of the second 1 mbar pertebra The patient visit llumable to vork after

six months of bed rest and the wearing of a brace for a year. A strik g find g in the case was marked osteoporosis of the entire spinal column

Another ease was that of a girl twenty five tears of age who had a compression fracture of the second lumbar vertebra \( \) to the fracture was still unhealed after four months of rest in bed operation was necessary.

The third case was that of a man forty three yea s of age v ho sustained a compression fracture of the th d lumb r vertebra After a short time this patient became symptom free and aft six weeks he as able to be out of bed nearly all day At the end of nine weeks he as lischa ged from the hosp tal without any disability Fifteen weeks later he was r admitted because of local and rad ating pais Exam nation then revealed a ma ked kyphosis and a d tinct g bbus So called Kuemmell's deformity i not al vays de to a facture. It may sometimes b produce 1 by trauma which jures the internal ti sue of a crtebra so that as demonstrated by Ch sten Schmorl and Goecke a degeneratio of the cells results and the vertebra bich appears intact in the roe tgen p cture breaks down in the co se of eeks or months

The fourth ease reported by the author was that of a tvent vea old g I who had a c appress on f cture f the second lumbar ertebra As bo y un on failed to occu a graft from the tib 1 as im planted Afte eight weeks the patient w s able to lea e her bed ithout a supp ting apparatus

S OEMA V (Z)

OI ecr n II Som Considerations on the Tr t m nt fF acture of tl Astagals (Qu lq de t gl) lt fm nt des fat d l t gl) lt / gS d 9 7 l 355

The author report a case of t ans erse fracture of the b dt of the ast agalus with poster or dayl c ment of the posterio fragment and i secured as the construction of the construction of the the bony fragments were fired in the metal in its Tentomy of the Achiles tendon vas per lorm of Recovery resulted with good mobility and sauf c to y function

### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Gregora H Gungrene of the Extremities Follow ing Subcutaneous Rupture of Blood Vessels by Dull Force (Extremitietengan raen nach subcutaner Gefressruptur durch stumpfe Gewalt) Bettr klin Chr. 1027 vd. 199 229

Gangrene of the extremities may result from subcutaneou injuries causing marked destruction of the
deeper trissues or much less frequently from lesser
trauma injuring the main blood vessel. The author
reports four cases of the latter type seen in Scholfier's
clinic since 1911. In three cases the pophitical ritery
and in one case the femoral artery was injured. In
three cases the artery was forn transversely and in
two of these this injury occurred as a complication
of subcutaneous fracture. In one of the latter the
vessel was forn by a fragment of the broken bone, and
in the other by stretching or compression.

A complete tear of a vessel may sometimes heal spontaneously as the result of involution of the inti ma Partial subcutaneous tears of blood vessels have a more unfavorable prognosis than total ruptures. Tears of the inner vascular membrane resulting from subcutaneous injuries and followed by thombosis may lead to gangrene. Va cular injuries are most common in the lower extremities because of the proumity of the blood vessels to the bones and their fivation in the fascier and aponeuroses such as Pou part's ligament the fascia of the adductor canal the soleus tendon and the ligamentum interosseum. They occur most commonly at the sites of bifurcation of the vessels.

The most common causes of vascular injuries are fractures. With the exception of fractures of the forearm all fractures may lead to gangrene. Sub cutaneous injuries of blood vessels due to luvations are most common in the upper extremity but are relatively eldom followed by complete gangrene.

The author reports a case of tearing of the brachial artery and vein in the sulcus bicipitalis in a dislocation of the elbow which healed following ligation

In the lower extremity only anterior dislocation of the knee plays a role

Besides fractures and dislocations all types of dull injuries such as bruies forced muscleaction squeezing and over stretching may lead to gangrene

The diagnosis of a recent vascular tear is frequently difficult. Important signs are disturbances of sensitivity and motility coldness and discoloration.

The prognoss for preservation of the limb is not favorable but the mortality has decreased in recent years. The prognosis is very unfavorable when the pophiteal artery is completely severed as the collateral system is easily obstructed by the resulting beams toma. In tears of the femoral avultary and brachall

artenes the prognosis is often doubtful. The formation of an aneurism is favorable, but this is rare in subcutaneous injuries.

In the treatment, the injured vessel should be immediately exposed and an uttempt made to suture it. Even if a thrombus forms later at the site of suture the suturing allows time for the formation of collateral circulation. Ligation is in general less favor able than vessel suture. The advisability of simultaneous ligation of the vein is disputed. The formation of a compressing hemitoma must be prevented.

In the discussion of this report Gold cited a case of gaagrene of the toes following the use of ga nergen in Basedow s disease (o g c m twice daily for seven days and 10 c cm twice daily for two days). In this case the removal of the second and fifth toes of the right foot became necessary.

Brown G E and Henderson M S. The Diag nosts and Treatment of Arterial Vascular Dis ease of the Extremities J Bone & Joint Strg 197 tx 613

The authors present a classification of the arterial disturbances of the extremities. Diseases of the peripheral arteries are divided into two main types depending upon their functional or organic nature Each of these is subdivided according to local or general distribution. The organic or obliterative types of disease consist of two main types thrombo angutis obliterans or Buerger's disease and ar teriosclerotic disease with or without thrombosis Diabetic gangrene is a form of the latter condition In the authors experience these types constitute more than as per cent of the organic diseases of the extremities Of the functional types there are two main distributions-the vasospastic which includes a large group of disturbances and in its more typical form is recognized as Raynaud's disease and the vasodilator which in its typical form is known as

erythromelalgia The treatment of the various vascular diseases is necessarily different for the two main types. In the vasomotor types with the color and low surface temperature indicating vasoconstriction treatment is not indicated in the absence of pain or trophic changes Prophylactic measures are advised for protection of the extremities in the colder months of the year frequently a change of climate is neces sary In many of the mild painless cases re assur ance is the sole requirement. For frank Raynaud's disease of the hands no curative treatment is known but in Raynaud's disease of the lower extremities lumbar sympathetic ganglionectomy is The treatment of erythromelulgia and allied va odilator syndromes is most unsatisfactory Radium has been used over the areas of burning but the results have been questionable. In one crise in which roenigen rass were applied over the lum bar and sacral spine there was some improvement. Frequently the teatment resolves itself into symptomatic relief of the attacks of burning by frequent immersion of the feet in cold water. Partial control of the symptoms is obtained by elevation of the lower lumber at might and the use of atophate.

The c es of organ c occlu ve disease of the arteres are treated differently. In the early or pre ga grene stage the treatment is protect ve and active. The protect e measures us include temme care in the handling of the feet the u e of p oper shoes and p otection against surgical timkering and traumatic and therm or nuits. The active treatment is directed town ad necessing the blood supplies in the colliteral inculation. I osturial e c cases contrast baths for the extremities graduated expours of the parts to elect c light bits and restriction of activity are most important in assures which girth good evilute for intimude long crowder.

I cases the gruge ene and continu us pain the chief p blem is the relief of the pain O d mary na e tes a e u eless. The injection of foegn prote; s will give relief it vai ble pe od in 80 per cent of the cases. If the pain c n be cont oil die sures may be cased out to heal the trophic ulcers. If the pain cannot be controlled surger I measu c—amput tion o let ruit ir nite feren ein the oconstitutor paths—trea dis bl

In ca es of o gan c cloure of the man vessel due to thrombo ang itis obl te an amputat on abo e the knee ha been the usu I su g cal procedu e Allen and M verding b e sho n th t amout to belo the knee is successful in 80 per cent f c ses pro ded pre ope tive and po toperati e m sures of treatment a carried out Similar re ults cannot ca es of ga grene due to arteri be obtained sclerotic d ase Lumb r ganglionectomy has been pe formed by Adson in eleven cases of th omboang ts obliterans. In nine the r sults ve e satis factory Relief f m pain vas complete and large trophic ulce s healed The application of this operation e ts entirely upon caref I select on of the cases the possibility of vasodilat tion in the collate al ve sels must be demonstr ted befo e operation. In selected c se encou aging results have bee observed. The esults of the opera tion n this disease can be detern ed only afte lo g period of postoper tive obse vation

Farmer H L Abd minal Aneurism with a Reprit of Thre C ses 1 J R 1g 1 1 927

Aneu ism of the abdominal aorta is comparatively ra e Syphil s the chief underlying cause The

ancursm usually occurs in the upper portion of the abdomen proximal to or in the region of the cerlar axis. As a rule the sac presents anteriorly and to the left sude. The symptoms are variable depending largely upon the size and location of the ancursm. Pann's common but varies in its character and intensity. Pressure symptoms may predom ate Chinically, the most valuable objective finding is an expansite pulsating stimor situated either in the epigastr um or posteriorly in the left upper lumbar region.

Abdom nal aneurism must be differentiated from tabette crisis neuritis gall stones pancreatic stones lead colic appendictus perpie ulcer gumma of the liver nepbrol thaiss and benign and malignant tumors of the stomach pancreas kidney and omen tum Abnormal throbbing of the sorta noted in neu of c and hysterical states forceful pulsation in a tic insufficiency and preternatural pulsation found in anemia and in arteriosiclensis in old men with thin ab lominal walls must not be mistaken f sens of aneu ism

I signs of ancu ism
The centice exam at on may be of great aid in
the dagnoss Direct visual zation of the tune
fact in requires special effort but is possible if there
is sufficient calcification in the walls of the sac and
vested if the ancur m is loated high under the
dome of the daphragm it may be directly outlined
by the adjacent air bubble in the stomach and its
pulsation may be studied under the roentgenoscope.
The aneurism may be directly visualized if the
aid of preumoperitoneum. It may be revealed also

by injecting a tinto the colon. The ind rect signs of addominal aneum in are no less sign ficant than the direct signs. The sharp clear cut areas of destruction in the bod is of the vertebre are fairly typical. The intervertebrial disk remain intact. In lead involved vertebra there is an dividual crescent shaped area of bone destruction. Usually there is involvement of more than one vertebra and the spine p esents a scalloped appea acc. As a rule the bone destruction occurs along the left anterior aspect of the vertebral bodies. The lo er into on the left side or the transverse processes of the upper lumbar vertebre may sho rarefaction from pressure absorption.

The prognoss in abdominal an ursm is unfavo the duation of the cond ton varies from three months to three years. He oic treatment ith todides and mercury has relie ed the symp tom but has produced no dec ease in the si of the sac. Death usu lly results from rupture of the aneu ism

Three cases are reported in detail with the history and the roentgen and autopsy find gs

opsy and gs Adolph Hartung M D

## SURGICAL TECHNIOUE

## OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Meleney F L Humphreys F B and Carp L An Unusual Fatal Operative Wound Infection Yielding a Pathogenie Anaerobe of the Gas Cangrene Croup Not Hitherto Described with Direct Reference to Catgut as a Source Sirg Gynec & Obst 1027 xlx 775

From the lesson in a fatal operative wound infec tion the authors isolated a new species of patho genic anaerobic bacillus of the gas gangrene group which they call clostridium cedematoides source of the infection was traced to surgical catgut

which was not sufficiently sterilized

Gas gangrene is not a specific infection but is usually a mixed one Several varieties of spore bearing organisms (called generically in recently adopted nomenclature) can be isolated from the great majority of traumatic cases. These clostridia are naturally saprophytic inhibitants of the intestinal canal of man and domestic animals and of the soil contaminated by their excreta. They may therefore occur in catgut which is manufac tured from the muscularis mucosæ of the intestines of sheep

Of the many anaerobes obtained from gas gangrene infections only a few have consistently met the requirements necessary to establish them as causative agents of the disease. These are clostridium welchii (bacillus aerogenes capsulatus) clostridium æde matis maligni (vibrion septique) and clostridium novyi (bacillus cedematis maligni II) Each of these produces in titre a highly specific exotoxin for which a specific antitoxin may be prepared

The organism which the authors recovered from a fatal case is culturally different from the three others. It produces a true exotoxin not neutralizable by the antitoxins of the others and its specific antitoxin is ineffective against the toxins of the

others

The histories of patients in the same hospital who were operated upon about the same time and developed fatal wound infections of the gas gangrene type are reported Clinically the condition was characterized by a brawny red cedema of the ab dominal wall around the wound severe pain at the site of the lesion fever leucocytosis a rapid and feeble pulse nausea profuse perspiration and toward the end somnolence irritability profound prostration and circulatory failure. The organism described was obtained at autopsy on one of these patients No cultures from living patients were posi tive since large pieces of dccp tissue are necessary for anaerobic culture work. The superficial cedema is only a toxic reaction usually the organism does not penetrate to the surface

The chromic catgut used in the operating room at the time the cases reported were operated upon yielded clostridium novyi in investigations made by another bacteriologist and two strains of the newly discovered species two strains of hæmolytic clos tridium welchii and two other non pathogenic spore forming organisms in investigations made by the

authors Clostridium ædematoides is a large strictly anae robic actively motile gram positive bacillus with Spores are formed readily in plain square end hroth On sheep's blood agar the colonies are dis crete gray and stellate with irregular margins They produce no hamolysis In the presence of r per cent dextrose large quantities of gas and acid are formed The organism was lethal in small doses for eight species of laboratory animals tested. It may be recovered from the lesion peritoneum and blood The typical lesion in the guinea pig is an extensive slightly hamorrhagic cedema of the subcutaneous tissues which is neither as extensive nor as colorless as the lesion of clostridium novyi nor as hæmorrhagic as the lesion of clostridium ædematis Gas formation is minimal Œdema is most marked when death occurs slowly

The organism produces an evotovin which is fil terable and thermolabile and when injected in sub lethal doses into animals stimulates antitoxin for mation Reciprocal tests with sera and toxins and cultures of the other pathogenic anaerobic bacilli of the gas gangrene group showed it to be a differ ent species. The article includes a chart differen tiating the three recognized pathogenic anaerobes and this new species as to spore formation colony

appearance saccharolysis and proteolysis

The pathogenicity of the organism for man is in dicated by its occurrence in a fatal human lesion and its lethal effect on animals. The authors emphasize that manufacturers should adequately dem onstrate the sterility of all catgut by both aerobic and anaerobic methods MAURICE MEYERS M D

#### ANÆSTHESIA

The Rectal Administration of Hatcher R A Ether and Oil and Morphine Magnesium Sulphate and Ether in Surgery and Obstetrics Report to the Council on Pharmacy and Chemistry J Am M 155 927 lxxxx 2114 2180 2258

Hatcher states that the administration of ether with oil or liquid petrolatum constitutes an advance over other methods for the rectal or colonic adminis tration of ether

Anæsthesia is induced readily with varying proportions of ether and oil but it is probable that a

mi tu e of equal volumes of ether and ohve oil or I quid petrolatum is the most suitable for inducing anæsthes a by rectal instillation after the sub cutaneous injection of mo phine Such a mi ture readily gives up the ether for absorption into the c reulation in adults as ell as in children and probably rr tates the testine le s than mixtures containing higher percentages of ether

As soon a the oper ton is complete; the bo el must be washed and all resid 1 m yture emo ed The buttocks nl thighs hould be p ot cted by an applie t a of petrol fum to pre ent rritation f om ether that esc p The p tent must be toll to resi t the de ire to e pel the mi tu e Pressure

g nst the a us m v be nece s v to pr vent volunta v e pul on S me pati nt ca t retain tad many chille llntc prate

The ethe is ab o belf m the coln n t f m the rectum Therefore the varmed m tur should be ntroduced high up in the ectum. About ten minutes being taken for its ) ction

Rectal or colonic olether angesthe a has the following advantage

I It sp e the repirat y p sages to some

extent and causes less itation than the inh 1 t on of ether It s a sociated with less s I vary an I br nchi I

secret on ti agreeable featu s f 3 It lacks ce t halation and the sia connected with the refle es

from the face and respirators p sage 4 The stage of exctement is short and oft

lacking
5 There 1 s au ca and vom t g duri g the

anæsthe a a lafter the ope at o 6 It leaves the field clear f r operations about

the face and head

The method h s the follo ing disadvantages The depth fanæsthess i not u der such p fect control s n inhalat anæsthe ia and this disadvantage is so gleat thit it must often outs eigh all of the ad a t ges f th method. The

lack of pe fect cont ol s met me means death The anaesthet c au e ome irritation of the i testi e n ve y c s and se ere and e en fatal irr tat on with hamorrhage in an undete mined

small number 3 It pr b blv c u es greater injury to the l ve than does the halat on of ethe in like amou ts The method hares with anæsthesia by nh la

tion certain drawbacks The contr 1 dications are the same as those

for general and the sia with other being based on its phirmacolog cal act ons

2 It m st ot be employed in a room in bich there san ope fi me

3 The pat ent must be kept under observation until conscious s returns because the tongue may fall back nto the throat and induce fatal asphyxia This sometimes means prolonged observation by a trained anæsthetist or nurse

4 It is not always sufficient for deep anæsthesia w thout the preliminary injection of morphine or the subsequent use of ether by inhalation. The co tra indications of morphine must be considered

It is certain that inhalation anæsthesia conducted vith skill is a fer than rectal anæsthesia follo ed as a rout ne procedu e without judgment care and kill Until the necessary information is available the do e of ether should be graduated accorde g to the veight of the p tient. It seems probable that 2 gm f ethe per kilogram of wei ht is the ma i mum that can be instill I into the rectum with safety following a hypodermic injection of from / to gr of mo phine sulphate the dose of which is

I o dete m ned by the weight of the patie t Whether there fe s da ger of postoperative pn umonia follo sing rectal or colon c and thesia than inhal ton anæsthesia cannot be stated be cau e of the lack of adequate statistical tudies of th occurrenc of such postoperati e p eumonia

n 1 it The use of morphine during the first stage of labor and of ether or chlor form for the second stage appe is to be the accepted procedure. Mor phine ulphate in a dose of / gr fo a voman of aver e ize is irtully ithout danger to the

om n and ass crited with littled ger to the hld prouded to not used with n less than four hours of d l ry and the subsequent use f ether made the due understanding of the action of mo ph ne on the respiratory center. The use of morphine in doses exceeding an a grage of / g for the woma of aver g s e nd the subseque t use of eth r chloroform avol e danger to the child The danger ris s a the dos f morph ne s ince sel It seem obvious that the dosage mo ph e and ether should be calculated fo the

ght of the patient. For the woman of average z the ma imum dose of ether u ed after a rage d se of mo phine during labor that does ithout complication is ot exceed thee hous about / o Obvi usly the bowel should be

emptied vben labo is completed

The question of the alue of magnesium sulphate with morphine and ethe cannot b ansi ered at present. The e is no satisfactory evidence that it n eases the action of morphine r that of ether and animal e pe iments show th t there is a sum mation of the to ic effects. It p obable al o th t a like summation of therapeut c effects occurs

There is pressing need of systematic e per mental studies of the drugs used during labor and f stati tical studies sho sing a ccurately s pos ible the an lg s c action of each drug on wom n and the S MLEL KAH M D tox c effect on the child

## PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Schaefer W The Action of the Roentgen Rays in Bacterial Inflammations An Experimental Pathologico Histological and Clinical Study (De Wirkung der Roentgenstrahlen bei baktenellen Entzuendungen eine experimentell patholosch histolowische und klimische Stud e) Arch f klim Chir 10 r exkly 10d.

The author applied roentgen rays locally to rah bits that had been infected by an abscess forming strain of staphylococcus. After six hours no differ ence could be noted between the animals irradiated and those not irradiated. Later the first group showed an increase in the cellular inflammatory infiltrate—an increase in the inflammatory process that led to speedier breaking down of the abscess and more rapid healing. This occurred in eleven (458 per cent) of the twenty four experiments. In seven the

inflammation was less and the healing was retarded

In four no difference was noted between the irradiated and non irradiated animals

The effect of the roentgen rays is therefore in constant. It begins only when symptoms of in flammation are already present the tissues then being more sensitive to the rays. From the pathologico anatomical standpoint the manner in which the roentgen rays act upon inflammation is similar to the mode of action of other conservative methods of producing inflammation such as poulticing and Biers hyperæmia. The roentgen ray however has the important advantage of exact dosage and may be used for localized deep action. Other methods are not to be abandoned but in each case it must be decided which method or combination of methods should be employed.

#### MISCELLANEOUS

Granger F B The Use and Abuse of Physical Therapeutics J im M Ass 1927 lxxxx 1194

Physical therapeutics may be of value in the following pathological conditions non union or delayed union of bone low back injuries adherent scars bursits peripheral paralysis neurits pneumonia acute myositis myo tits ossificans traumatical sprains fractures arthritis surgical tuberculous tuberculous and various skin conditions

It is an abuse of physical therapy to employ it except (r) after a careful physical and laboratory

exumnation (2) as an adjunct to other standard and well recognized procedures (3) in conjunction with other hranches of medicine and surgery (4) after a definite attempt to apply proper physiological effects to the predetermined pathological condition and (5) when every care is taken not to use it instead of other proved methods that may be superior

Technicians should be discouraged from running offices of their own and only physicians trained in physical measures should be assigned to take charge

of physical therapy departments

In conclusion Granger emphasizes the danger of the treatment habit John S Coulter M D

Sequeira J H and O Donovan W J Light Treatment at the London Hospital La sect 1927 ccus 1118

Since the Light Department of the London Hospital was opened on May 1 1000 660 cases of lupus vulgaris have been treated by the local application of concentrated light (Finsen treatment) Seventy per cent of the patients have been cured it per cent still require occasional treatment 16 per cent are to be classed as benefited and 3 per cent were uninfluenced

- In July 192 the light bath treatment was intro duced. This is given with the use of a 70 ampere arc tungsten paste carbon poles and various forms of mercury vapor lamps. Since the local treatment has been supplemented by application of the light to the general body surface the incidence of cure in lupus vulgars has been increased to 90 per cent. The authors draw the following conclusions.
- The results are independent of the cutaneous reaction and the extent and degree of pigmentation
  Children are usually benefited more rapidly

than adults

- 3 The increase in the body weight is small. A rapid decline in the weight should lead to immediate suspension of the light bath treatment and a search for active pulmonary invasion.
- 4 Estimates of the temperature and pulse rates are of no particular value but it is best not to treat pyrexial cases
- 5 The slight leucocytosis observed in early cases has no clinical importance
- 6 There is no doubt of the marked improvement in the general health and the mental outlook. This is independent of any change in the basal metabolism.

JOHN S COULTER M D

## MISCELLANEOUS

These spots

#### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Llon G Symmet lcal G ngrene of the E tre mities De eloping During an A ute Infectious Disea e and Running ti e Cou se of a Tran s ent Complication (Gagè ymét q t ém té dé l ppé d l d maladı ft ag téol talic ge) Bu tém S ompl méd d 180

ດ ກົ l´ 45

The patient hose case a reported a noman sixty eight years of age was recovering form an acute se e e attack of bronchopneumonia presum ably of pneumococcic origin. Du ing the cou se of a profess onal v sit L n observed the sudden appe r ance of cyanosis of the extremities and the to of the no e

disappea ed on pressure but in the center of each cyanotic area there va a small ed snot hich pe sted The pulps of the fingers were

ffected but a fev spots appeared also on the d r al su face f the hand

vere very panful and s oll n During the following six days the cyanosis dimini h d in the al e dy aff cted parts but ap pear din ne reas each tha hem rrhag c spot The finge s of the left hand both in the center great toe the chin both eas and both cheeks becam evanotic

A new attack eight days later invol ed especially the hands and feet

To enty four days after the onset of the condition there er superfic I gang enous area in the process of sep ration on the tip of the nos both cheeks the lobules of both ears and umerous parts of the do s l and olar surfaces of the hand end of a month the g ngren us areas had sen rated from the nose and cheeks but it as almost six months before the hand ere entirely clea-

During second attack of bronchopneumonia there as no retu n of the co ditio alth ugh the patient complained that she e perienced a ensation of cold in the sca s high remained from the previous

The c ndit on w s diffe entiated f om Raynaud s disease by its sudden o set thout premonito y syncope and asphyra the rapid development of and the subsequent course The the gangr suddennes of its appearance suggested purpura but the live and spleen were not enlarged and except for the app arance of clumping f the blood platelets the blood examinati n was what was to be e pected n a eve e infect on When the patient's blood se um as my ed with the blood of other persons clumping of the th ombocytes

occurred but after the gangrene had cleared up it no longer produced or showed clumping

MICHAEL L MASON M D

He tzle A E Chromoma of the F rea m 4 S e 98 | T v1 00

Hertzler reports three tumors of the fore rm v hich he believes were derived from chromatophore cells The fact that these tumors ere free from p gment does not a gue against this origin because the chromatophores are man ly reparative in character they absorb athe than form pigment

The tumors high Hertzler calls chromomata or chromata differ clin cally from the melanomata in being more destructive locally and in metastasiz ing more slowly and o ly by way of the lymphat cs They resemble the tumors occurring in the foot which Hertzler described in 1914 They begin as painless subcutaneous todules hating no connection with the skin. They slovly destroy the skin and may my live all o the deeper structures. They do not appear to be amenable to a v sort of treatment

Histologi ally they are made up of small irregu I rly a ranged sphero dal cells with deeply staining nucle scattered thro ghout a connective tissue which is r cb in capillaries The vessel n the stroma tend to ha e thickened endothelial walls. Although the general appearance is that of a reacti e pr cess close scrutiny of the small cells led H rizler to conclude that these g owths are neoplast c Al eo lar arrangement of the small cells may be present in the o ginal tumo or the lymphat c metastases L MASON M.D. Mics

Ullmann II J The Lead Treatment of Ca cer & Ob 1 98 1

Collo dal lead orthophosphate is much le s tox c to the organism than the colloidal metal or the other salts Solutions of lead rthopbosphate keep in definitely at room temperature and appare tly do not alter their toxicity with age

In the author a case of cancer a rout e e am na t on of the u me a d blood is made the kidney funct on is estimated from the dye test and blood smears are searched at intervals for st ppled cells The solut on of colloidal lead phosphate is a jected intravenously the amount vary ng with the weight of the pat ent and the size of the tumor The average dose is 80 mgm. This is repeated veekly until

from 300 to 500 mgm have been given
The eye f lead in the t eatment of cancer holds sufficent pomise to war a t thorough investiga tion It is necessary in order to obtain the m xi mum benefit to combine the retgen ray or radium with lead inject o s

JOSEPH K NARAT VI D

# GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Platou E S Schlutz F W and Collins L Erysipelas A Clinical Study of the Treatment of This Disease 1m J Dis Child 1927 xxxv 1030

The authors report results obtained in cases of ensipelas subjected to the roentgen ray treatment evolved by Rigler roentgenologist of the Minnea polis General Hospital Over all areas the distance from the tube to the skin was 25.4 cm. A filter of 2 mm of aluminum was used. The readings were 111 kv (peak) corresponding approximately to a 7 in spark gap between moderately blunt points and 5 ma were used for five minutes over each area. This was considered a dosage sufficient to produce a mild crythema when the oblique radiation from each area was included. In the treatment of the scalp the duration of the irradiation was reduced to four minutes to avoid the production of permanent epilation.

Eighty cases were treated by roentgen ray irradia tion alone thirty with Birkhaug's erysipelas anti toxin alone and ten with roentgen ray irradiation and antitoxin combined. There were thirty five control cases:

In the cases treated with the roentgen ray the temperature returned to normal in one and a half

days and the pain toxemia and general malaise subsided in two days. In the control group the corresponding periods were three and four tenths days and eight days. Extension of the disease occurred in 21 per cent of the irradiated cases and 68 per cent of the control cases. The mortality was 6 per cent in the control cases although the former group con tained twice as many infinits under three years of are

To the cases treated with crysipelas antitowin the temperature returned to normal in two and two tenths days and the symptoms other than fever subsided in three and eight tenths days. In the control group the corresponding periods were three and three fourths days and eight days. Extension of the disease occurred in 46 per cent of the cases treated with antitowin and in 68 per cent of the control cases. The mortality in the cases treated with antitowin was only 6 per cent one fourth the mortality of the control group.

From these observations the conclusion is drawn that roentgen ray irradiation and the administration of antitoxin in adequate dosage intravenously intraperitoneally or intramuscularly are of definite value in the treatment of crysipelas. In the ten cases in which both methods were employed the prognosis was considered especially grave

ROBERT M GRIER M D

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## EDITOR'S COMMENT

MRISTOPHER Scritical review of the lit erature of the past five years on the treat ment of furun les an l carbuncles (p .45) deserves careful realing As one ob erves the trends in surgical teaching and practice today he cannot help but be impressed with the relatively scant attention that is being paid in medical school and hospital to the correct and efficient treatment of infections as compared with the emphasis that is being laid upon the so called major urgical di cases Frequently the grad uating student and the hospital resident have definite an I sound concentions of the surgical management of a cale of thyroid intoxication but very hazy ideas of basic prin iples involved in the treatment of an infected wound and of the most effective method of applying those principles If then the instructor and the attendin surgeon show little interest in the subject or as sume that the student is already well versed in it the young surgeon may fail entirely to gain a comprehensive knowledge of the most effective methods of treating the very cases he is most likely to incounter during hi early years of practice Christopher's revie emphasizes again the principles involved in the surgical treatment of a type of infection v hich is both common and not infrequently difficult to manage and which for both reasons deserves careful consideration

When one has listened with complacent cars to the oft repeated assertion that the lea lership in modern medicine and surgery has passed from the old v orld to the ne it is with unpleasant feelings of surprise that he read that the maternal mortality rate in the United States 1 one third higher than the maternal mortality rate in England and Wales and more than twice as high as that of Denmark Italy Japan the Vether lands New Zealand and Sweden (Baker p 40 ) In 1015 the mortality was 61 and in 10 5 64 per 1 000 births In Canada in the year from July 1 10 5 to July 1 1926 it was 6 per 1 000 births (MacMurchy p 40 ) In Norway in the period from 1900 to 1918 the average puerperal death rate was 2 95 per 1 000 births (Kosmak J 1m VI 1ss 19 , IXXIX 209 INTERNAT ABST OF SURG 1928 vlv1 299) and 85 per ent of the leli eries ac e done by midanes

Of particular significance is the statement of Baker that 40 per cent of the maternal deaths in the United States are due to puerperal infection and 10 per cent to instrumental deliveries and surgical procedures such as casarean section. In other ord one of every two deaths results from infection or operative delivery. In discussing the possible remedies for this situation. Kosmak has made a number of helpful suggestions that de ser e the thoughtful consideration not only of specialists in the field of obstetrics but of every member of the medical profession

The constantly increasing interest that is being manifested in the subject of thoracic surgery the videning indications for surgical treatment in the presence of intrapulmonary suppuration and the constantly impro ed results that are being obtained through the co operation of workers in many different tields -experimental surgery radi olo\_v bronchoscopy bacteriology and patholo v -have been frequently emphasized in these pages The experimental studies of Crowe and Scarff (p 2) and of Allen (p 37) supplement the vork of Schlueter and Weidlein and of Ochsner and others on the pathogene is and experimental products n of lung abscess. The reports of Whitt more and Balboni (r 73) and of Logers and Lernan (p 373) on the results of artificial pneumathorax in abscess and bronchiec tasi and Archibald's discussion on the surgical treatment of pulmonary tuberculosis (p. 174) are other helpful contributions to the subject of tho TACIL SUFFETY

Balfour s pap is on the surgery of the stomach and duodenum (p 38) Hunt resume of the critical factors invol ed in the successful manage ment of prostatic obstruction and of the results obtained in a large series of cases at the Mayo Clinic (p. 407) Boy len's experimental studies of gall bladder function (p. 300). Mosher's report of the results of examination with the barium bougie in cases of curdiospasm (p. 377) and kraske's recommendation of the principle of elastic ten sion in the treatment of club foot (p. 416) are a few of numerous other interesting and helpful contributions which are abstracted in this month's is ue of the INTERNATIONAL ABSTRACT

OF SURCERY

# INTERNATIONAL ABSTRACT OF SURGERY

MAX 1928

## COLLECTIVE REVIEW

### THE TREATMENT OF FURUNCLES AND CARBUNCLES

By FREDERICK CHRISTOPHER M D FACS CHICAGO
A oct S gry ht t U ty M d 18 h l Aut d g S g F t H pt l E t lil

SURVEY of the literature of the list five years which deals with the treatment of furuncles and carbuncles discloses a multiplicity of methods of treatment which reflects dissatisfaction with the usual methods and an active search for better ways. An appraisal of any system of treatment of carbuncles and furuncles is very difficult. Frequently several therapeutic measures are used simultaneously considerable dissimilarities in the furuncles and furnish other control except what he believed the infection would have done without his treatment The last remedy employed is often given credit which really was due the defensive forces of the body

Séveral criteria are employed in the estimation of the value of a treatment. The criteria from the priteria standpoint named in decreasing order of their importance are (i) the amount of pain () the extent of the interference of the treatment with the patient's work (3) the degree of inconvenience caused by the dressings (4) the length of time required for recovery (5) the size of the scar (6) the need for a general anesthetic and (7) the expense of the treatment. From the doctor's standpoint must be considered. (i) the amount of skill required () the practicability of the treatment for practitioners with limited facilities and (3) the practicability of the treatment in large hospitals wherever ory facility is variable (13).

The furuncle is the site of a conflict between the invading staphylococcus and the natural

defensive forces of the body There is no fun damental difference between a boil and a car buncle The difference is due solely to anatomical and mechanical factors. The carbuncles differ because of the tough skin connected to the under lying fascia by strong vertical septa (81) Theo retically therapy has but two objects-to destroy or weaken the staphy lococcus and to augment the protective mechanisms of the body Practically however it is necessary to consider in the treat ment the assuaging of pain and the general con venience of the patient. The infecting organism comes from without and passes through a portal of entry in the skin generally a hair follicle and the reaction to its invasion depends upon the virulence of the particular strain of bucteria the state of the defensive forces of the host and the anatomical peculiarities of the site invaded Furunculosis is a syndrome with very variable accompanying etiological factors (105) does a saprophytic organism suddenly become virulent? is asked There are all gradations between pimples and

malignant carbuncles. The reaction of the tissues to the staphylococcus is either suppuration or necrosis (107). The core or slough is composed of dead tissue and dead cells. The early prognosis of a furuncle according to Schutz (114) depends upon (1) the area of infiltration (1) the intensity of the pain and (3) the amount of systemic disturbance. Severe pain is not however a marked symptom of many very is nous carbuncles of the neck. The situation of the furuncle is an important factor in its seriousness. As is well

known furuncles of the face and particularly those of the upper hp have a hi h mortality (18) Hinton (49) has made very clear the anatomical

proximity and relations of the anterior facial vein and its branches to the cavernous sinus From the facial vein blood and organisms may pass ly way of the inferior ophthalmic vein and the angular and suremor ophthalmic veins by a sort of r tr prile thromlesis. The mortality of furuncles of the face has been variously estimated Of 10, c) streate len Favr s ser nem the penol from 191 t 1; 4 10 7 per cent were tatal (91) Mo ian (, ) lelieves that persons with mah, nant furuncl s ith sep i from the start are domed no matt what treatment is guen Dittrich (21) stres e fiver is an important sign of a tendency toward malignan y in a furuncle of the face Dittri h had eighty or ht cases of furuncle of the face \ irly 50 per c nt ere on the upper lip an I in this gr up th mortality as 10 per cent According to Hofman (53) the mortality in 82 ca es of furuncle f the face at Bier's chinic as 8 2 per cent in one third of the fatal cases the furuncle vas n the upper lip. By some the mortality of he furuncies is believed to be con siderably higher

Cal ts (q) recent case is illustrative of the danger of t sumation in furuncles of the upper lif A lov of se enteen verrs picked a small pustule f th upper lif. The next day a small incision as made Tremendous swelling then developed and the pati at became stuporous The white I lood count aned between 23 000 an 1 , 1000 and when the fatient died six lavs later there was pus in the cavernous simises. In Com rs (15) cas the patient picke land squeeze i a fu uncle f the antenor nares an I death ensue I thre r four lay later Turner and I eynolds (118) report one leath in sixty three cases of furun le t the nasal vestil ale a mortality of a per cent. In the fital case a small I oil appeare I upon the inner aspect of the right ala miss. To days liter it bu t with a free d charge of jus On the foll vin liv heals he omitin and currel 1) ath re protrusion of the e el all sulted sudays after the on t

Kauffn ani (6 ) f and the mortality of furun le metastises to be alout 1 for cint cons le al ly lower than I i del e timate f 5 per cent The locus min is e tentia nviting the metastas s was g nerally the site f a hamorrhage and the I ro nosis as me t serious in the cases in which the inner organs vere involved

Althou h accurate class f cation is impossible the treatment of furuncles and carbuncles may he considered under the following heads

#### Prophylactic treatment Local treatment

## A Mechanical

- I Incision by knife including ex
  - Incision by crutery including excision
  - 3 Ignipuncture (glow needle)
  - Sounding and dilatation Phenol probe
- 6 I est avoidan e of trauma
- Chemical Citaplasma and softening poul
- tic s
  - 1 Unguents
  - Lensin
  - c Puncrentic ferments
  - Hypertonic solutions a Saturated boric acid solu
  - Numinum acetate
  - Intiseptic plasters and applica tions
    - a I henol b Iodine
- I hthyol
- Heat
- Hot fomentations 2 Dry heat
  - Irradiation diathermy etc
  - 1 \ ray
  - 2 Ultraviolet light 3 Diathermy
- Biological

  - Autoblood circuminjections \ acuum cupring
  - Bier s hyperæmia 4 Horse serum
- Histoplast
- 111 Syst m c treatment
  - Biological 1 Vaccines
    - Insulin Blo d
  - Son sp cific protein therapy
  - Pharmaceutical r Sulphur
    - Γın

    - 3 Man, anese Oumne
    - Mercury
    - Mercurochrome
  - Turpentine Dietetic measure lavatives fluid
- rest ĸ Anxsthesia in furuncles and carl uncles

#### I PROPHY LACTIC TREATMENT

In his interesting review of the treatment of furuncles Lotsch (63) considers prophylaxis first Under this heading may be mentioned first strict bodily cleanliness. More specifically, where ous has come in contact with the skin as in the neighborhood of a discharging furuncle the skin must be scrupulously cleansed preferably with soap and water and washed with alcohol epithelial defects or abrasions must be avoided Shaving with a dull razor traumatizes the hair root follicles Men whose stiff collars cause skin friction are much more susceptible to furuncles of the neck than women who wear soft low collars All abrasions and small wounds should be treated with antiseptics Caution must be observed in the use of adhesive to fasten dressings to discharging wounds since furuncles may develop beneath it. As will appear later dictary precautions particularly those which may caus a lowering of the blood sugar may be of Treatment with the roentgen ray and with autogenous and polyvalent vaccines may be included under the head of prophylactic treat ment but will be given more det uled consideration later

#### II LOCAL TREATMENT

Opinion is divided as to the wisdom of incising furuncles and carbuncles Lee and Downs (81) believe that there are two indications in the treat ment of all pyogenic infections - the relief of ten ion and the removal of dead tissue. The situation of the lesion is of course of importance Living ton (86) has made a careful study of carbuncles In the last 30 000 surgical cases admitted to Bellevue Hospital New York there were 160 cases of carbuncle of the back of the neck. Liv ingston advises immediate excision of the ne crotic tissue by a double crucial incision. He undercuts the lateral flaps in such a manner that they may be approximated by adhesive plaster as granulation progresses to bridge over the skin defect Excision of a carbuncle or anthrax lesion is advised by Goldschmidt (36) Hryntschak (55) agrees to cons rvative measures only at the very beginning or the ending of a curbuncle of the back of the neck and advocates radical surgery when the lesion is at its height Franke (27) incises early and curettes Lee and Downs (80 81) I dmunds (3) and Axhausen (1) consider it im portant to make undercutting incisions parallel with the skin surface so that all the diseased fat columns may be opened Dakinization of the wound with secondary suture is employed by some surgeons (81)

Objections to the incision of a furuncle or car buncle include the associated pain the possibility of opening new channels of infection the slow healing the use of a general an esthetic and the disfiguring scar (87) Junkerman (61) em ploys conservative measures He regards surgery in carbuncles and furuncles as criminal except in cases with fluctuation Hasty incision is warned against by Pulay (ror) Morian (gr) states that in furuncles of the face incision gives no better results than conservative treatment and has the disadvantage of leaving a scar Friedemann (3) emphasizes conservative treatment. In furuncles of the upper lip the evidence is unfavorable to incision Dittrich (21) found that in twenty two of forty cases of furuncle of the upper lip which were treated by incision the mortality was 136 per cent whereas in eighteen cases in which incision was not done the mortality was only 5 5 per cent Melchior (00) collected a venty three cases of face furuncles at the Breslau climic In the thirty seven cases treated by incision there were four deaths and in the thirty six cases treated conservatively there was but one death Melchior believes however that incision was done in the more's rious cases. He is inclined to the opinion that if the process is progressive suitable incision is the surest procedure to prevent further propugation

As is well known the chief danger in furuncles of the free is cavernous sinus thrombosis and infection by way of the facial vein (Hinton 49). Triumatism is believed to increase the risk of thrombophiebitis with the meningerl sequelæ. Hofmin (54) emphasizes the danger of picking and squeezing. I ven the use of a sharp knife may aggravate the condition. One is somewhat refuctant to endors the method of Gallemartis (55) who treats early and radically every furuncle of the face with the gala unocautery. Schule (11) does a central cauterization of furuncles and in sits a cotton drun. Jopson (60) uses the cautery for ordinary carbuncles but does not do a complete existion on the face.

In 19 first Kritzler (71) and then Schule (711) advocated central cauterization of furincles with a glowing hot needle (ignipancture). Koch (70) describes this method as painful but aston ishingly viduable. After cleaning of the slin a glowing hot knitting needle is inserted from 6 to mm into the crater of the furuncle. This is believed to destroy the first focus of infection Without squeezing a gauze dressing is applied Schutz's (113) method consists in sounding and dilating the carbuncle orifices and applying hot compresses. Braun (6) prisses the Schutz

method but employs sounds which are hollow and dipped in a solution of iodine phenol and turpentine Dittrich (2r) uses a toothipich dipped in phenol introducing it in the direction of the hairs into the white center of the furuncle. This method is entitled to favorable consideration.

Long ago I reeman (30) advised the extraction of the central hur or opening of the superficial pustule and the introduction of 65 per cent car bolic acid. Petret (60) repertedly applies on the furuncle one drop of phenol under slicht pressure until it corrodes its way into the accumulation of pus. In 102. Kin let (71) advocated the application of carboile acid under slight pressure.

Placing, the site of the carbuncle or fururale at rest is believe I to be of first importance. Putting, the patient to bed is often a wise procedure. In cases of neck cirbuncles. Livingston (86) uses a plaster of Paris dre sine to immobilize the head. In cases of lip furuncles. Dittrich (2) leeds the patient through a tube and prohibits speech in order to keep the affected parts at rest.

Innumerable salves have been devised as appli cations to furuncles These cataplasma or poul tices have been designed to relieve pain to evert a bactericidal effect to soften the skin and to accelerate the opening of the furuncle and the discharge of the central slough or core salve (unguentum cinereum) a 3 per cent mer cury ointment has long been employed (24) Tunkerman (6r) applies it in a thick layer on gauze unless tomatitis or nephritis sets in Jechlin (125) has treated 4 000 furuncles by this method. He streads the salve from 4 to 5 cm beyond the infected one and sur plements it by hot alum acetate compresses Junkerman has recommended 40 per cent sulphonated bitumen (6r) and 40 per cent ichthyolanaolin (8) A o per cent ichthyol vaseline has been used by Buzello (8) A most useful proprietary remedy in the United States consists as attally of r per cent I henol o to 10 per cent fluid extract of ergot and a per cent zinc oude plus a vehicle. Salicylic ointment is used by many Schlunk (110) recom mends for furuncles carl uncles and leg ulcers a salve called philonin sal e the formula of which is

C prum od thoo hn l Ipl \sqrt m lpl m \d m b m Tryp fl B lsam m pru m P ta n d oo

The first iner dient is believed to act ate epithelization. The sil er sulphate assists the slong hine proces. The trypaflium is an anti-

septic and the peruvian balsam an anal esic Kntzler (7r) believes the application of 75 to 20 per cent salicylic collodion to be of value in early cases but this method seems to be counter to the best surencil principles. Flassed poultices are useful as softening agents but are not assettic

Morrison (a) treated twenty eith cases of carbunde vithout a deuth by applying, to the whole influmed area a paste of magnesium sull late. This is prepared by mying, r lb of dred magnesium suphate with 17 oz of pure glyceria. Is the myiture is very lygroscopic it must be protected from the air. It is applied to gauze which is placed on the cirl functioned or twice drill.

a most interesting method of treatment is the application of salves containing the di estive fer ments of the intestine The purpose of these ointments is to macerate and digest the skin in the center of the furuncl and thereby facilitate the discharge of the inner pus or slou h Accord ing to Latz (62) who states that this method was eniployed first by Unna the best results are obtained in furuncles and carbuncles but panaritium (parony chia) is also favorably affected Knoch (60) uses applications of unquentum en vm comp lil ewise known as wundsalbe Dr I ohm This is prepared from an enzyme of the pancrens. In certain cases. Knoch uses also a powder viz puly en vmi insper. In twenty cases Marcuse (88) employed conservative treat ment with a pancrenti ointment called pun kreasdispert salbe v high contains a protein splitting ferment Salves containing pepsin have also been described Wilmoth (1 ) mentions yeast fomentations as an aid to slough direction

While hot saturated boric acid fomentations are still the choice of many clinicians other hyper tonic solutions are also warmly advocated Canon (10) in ro24 reported the treatment of 110 cases of furuncles and eighteen cases of carl un cles exclusively by immobilization and a dress rn, saturated with a weak solution of aluminum A year later (1r) he reported that he saw no complications in his series of 120 cases of furuncles (including 21 cases of furuncles on the face) which were treated only by rest in bed and dressings moistened with a solution of aluminum subacetate whereas in patients ho had ben operated upon for furuncles le saw several metastatic ibsces es Zechlin (125) use I hot com presses of wen turer Tonner Boesun of the usual essa saurer Tonnerdloesung formula is

Lq lm t taln 3 cm Aqu 000 m

A method of aborting very early furuncles which is often successful consists in painting the small red indurated painful area with full strength tincture of iodine Three or four coats may often be used to advantage the tincture being allowed to dry between applications (97) Wolfer (1 3) treats the earliest suggestion of a pyogenic cutaneous infection by anæsthetizing the skin with carbolic acid in a very small cross and making in this carbolic cross a very shallow short crucial incision. The us of ichthyol was first advocated by Unna and has many proponents Kissmeyer's (64 65) technique is as follows Each furuncle is first cleaned with alcohol or todine and dried and then covered with pure Over the thick oil of the ichthyol which soon dries a thin layer of cotton is applied The little dressing sticks like collodion The next day the dressing is removed with topid water and the treatment is repeated. In some cases the dressing is changed twice a day. In cases of large furuncles Kissmeyer us s the galvanocautery and achthy of

Grosschopff (40 41) has used an alcoholic solu tion of salicylic acid (Salizylspiritus) to paint analgit a solution of isothioanally! has been recommended by Bramer (5) for the treatment of furuncles In 10 5 de Takats (20) reported thirty one cases of localized pyogenic abscesses in which aspiration was done through a needle placed to 3 cm from the border and a solution of rivanol was injected Sterilization occurred in twenty six cases (85 per cent) After sterilization two small stab wounds were made and through them the necrotic contents were expressed Although rivanol is supposed to be non toxic and non caustic some surgeons do not favor its use Deep injections of phenol have gained but few adherents

One of the chief agents in our pres in treatment of furuncles is heat particularly in the form of hot fomentations. It is important to give the nurse or attendant explicit directions as to the manner of applying the fomentations. The first require ment is that the dressings be massive so that an area considerably beyond the infected area will be treated The second requirement is that the dressings be continuously warm and moist most convenient procedure consists in applying dressings wrung out of whatever hot solution is employed covering the dressings with a rubber sheet or oil cloth and fastening an electric pad on top of all By this method a continuous moist heat is produced and the solution may be added at the corner of the dressing as needed. As a substitute for the electric pad a hot water bag or frequent changes of the hot dressings may be used. Heat is greatly appreciated by the patient as a rule. In the treatment of carbuncles, Living ston (86) uses dry heat after the first twenty four hours.

Potter (100) believes that the X ray is useful in the treatment of furuncles in a three fold way first in the form of a localized erythema dose, to about incipient boils second in the form of local treatment to hasten the healing and to make well developed furuncles less prinful and third in the form of a wide light exposure to act as apreventive and prophylactic. Hodges (5) states that the roentgen ray acts almost as a specific in the majority of carbuncles. He adds however that the early deep types of carbuncles are probably treated most effectively by complete surgical excision.

Similarly Berndt ( ) who reported four cases of successful \ ray irradiation of furuncles of the face is of the opinion that thorough excision of the infected area is the proper procedure in car buncles of the neck and back. In 19 1 interest was attracted to the use of the \ ray in furun culosis by Heidenhain (45) who recommended roentgen irradiation in resistant cases of axillary furunculosis Heidenhain used barely one third of the ordinary erythema dose with a 3 mm aluminum filter and a large field Lotsch (87) believes that the \ ray is of value for early furun cles but does not influence the late ones. Lewis (84) reported sixteen cases of carbuncles treated with the \ ray and believes that rochtgen irra diation exerts a powerful influence on the progress of the carbuncle While operation is unavoidable in a few cases Lewis claims that the \ ray brings a speedier cure than surgery in the ma toraty of cases

Little has been written about the use of dirthermy in furunculosis. Hunter (58) however has employed this method with success in the treatment of furuncles of the ear. Wilmoth (12) warmly recommends electrocoagulation in carbuncles believing it to have rendered obsolete the treatment of these lesions with the kinfe and cautery. He makes repeated hot punctures in the infected area and then curettes out the congulated tissue. Dittrich (21) has had good results from electrocoagulation with fine needles.

Ionization or cataphoresis has been tried Norme (94) employed this method in furunculosis of the external auditory canal using per cent salicylate or soda packing. Laquernere (70) dipped the negative electrode in potassium iodide and placed it over the boil. This may have brought about an ionization of iodine.

Ultraviolet light has been thed in furunculosis Treatment of the crater bed of an excised car bunde with the water cooled ultraviolet lamp has a germicidal effect on the superficial organisms The amount of penetrating effect is dillicult to estimate. It is not unlikely that generabed ultraviolet ridiations have a beneficial effect in raising the body's resistance to infection.

Following tour fatal cases of carbuncles in which extensi e incision had been done. Laewen (75) in rq 3 began to use injections of the patient's own 11 od. The whole blood was injected at the marcins of induration in furuncles after simple crucial incisions. The results were favorabl In the ame year Laewen ( s) dc scribed a case of fulminating furuncle of the upper lip in whi h after crucial incision go c cm of the patient's unmadified blood was injected just bey not the area of cellulitis. The next day the infiltration and induration were found to be merged. On the thir I day the temperature and swelling vere love On the sixth day the indu ration had sireal to the other side of the face Si ty have cultic centimeters of the patient's blo I was then in cted as previously ninth day the process had stopped (Carp) In 1) 4 and in 112! Lieven (7 /8) 1 am urged this m tho I for fu uncles of the face and neck

He aut menous blood is injected into the healthy skin at the influrated forder and a gener us sur i al renin i made after the in sects n 5 me bult 1 thro n upon th neces sity of using 11 1 fr treuminicett n ly the tork f Hil cil re and Thomann (45) Th se investi at r found that in rats and mice an off ctual blocking of injecte! t schaine could! obtained by nakin an neirchin wall of flood human ll wi s tu never solution I mer s solution di tille l'viter dirl'theria antito in or a silver salt I nha t (55) found Lae en s method succes ful in veral cases of malionant furuncle of the face. I rom 40 to 80 cul ic centi meters of I lood as meet d in a circle around the area of the infection. The method is referred to also by Schlesinger (109) Schirink (108) and Hinze (50) Hinze successfully treated three cases of carl uncle of the upper lip in this manner In ro 7 he (5 ) published photographs of a very severe case of carbuncle of the upper lip in which he blocked the area of infection by injecting first 80 c cm and two days later 120 c cm of auto genous blood

In contradistinction to Laeven's auto-enous blood injections aith surgical inci ions in car buncles Carp (1) made an extremely careful situly of injections of auto-enous blood without

sur ical incisions. He treated twelve definite trogressive carbuncles in non-diabetic subjects by the circuminisection of autogenous blood without accessory measures such as incision local heat or parcotics. He used a general anasthetic and a sterile needle for each of the three to six intracutaneous and subcutaneous cir. cumminections. The amount of blood varied from 10 to 70 c cm and averaged 37 c cm Carp noted that (1) the infection did not spread e cept in one case (2) there was quick relief of the pain and constitutional symptoms (3) there vas no apparent reaction after the injection (4) most of the slough liquefied (c) the injected blood seemed to remain in the tissues under coin\_ gradual modification for from everal days to two weeks (6) the time for cure was probably shorter than it would have been if a surgical procedure had been used (7) the patients showed a minimal scar at the time of discharge from the hospital and (8) the average time for cure vas t enty three days

The objection has been raised to this method that the injection of blood might spread infection exactly in the stime way as a local intestiletic (Carp). The apparently occurred in one of Carps cases I ut the spread sublasted without sur err on the addition to the treatment of rest flavseed poulities and ir entgen ray irradiation. As a rule, the inject of Hood seems to prevent the spread of indect in In answer to the objection that the inject of 110 of may become infected Carp quite I is en (s) as strium that the inject in of Hood blood is a wall against it espread of bricke a vible c nition (with himmatoma) pa es a ax for the dissemination of the micro organisms.

A variation of the auto enous bloo l treatment of Lae en is that f Kuhn ( 73 4) Kuhn believes that Laewen's injections influence the area around the furuncle more than the furuncle In order to distribute the blood more e enly Kuhn u es a vacuum cup with suction stron enough to groduce hamorrhages in and around the furuncle. Narcos s often is necessary in his method. Be inning with a ne ative rees sure of from 100 to 200 mm Hg the suction is increased to from 400 to 600 mm. Hg. The suction cup is left on for from one half hour to four hours. Kuhn has discontinued the incision of furuncles less than 7 to 8 cm in diameter Duker (22) has had good results from Kuhn s method He has used a vacuum as hi h as 1 atmosphere Because of pain the vacuum must not be applied too rapidly Hamorrhages are caused in and around the furuncle Hans (43) has warned against maltreatment of furuncles with suction apparatus Rieder (104) formerly was accustomed to inject I or c cm of the patient s own blood into the center of a furuncle but now uses ordinary horse serum. After a wide surgical opening he tampons the wound with diphtheria antitovin. In small furuncles 1 c cm of horse serum is placed in the center of the infection

In 192, Friedemann (31) recommended Bier s hyperæmia in malignant furuncles of the face For the induction of the hyperæmia a constricting band is placed around the neck for twenty two hours daily Of Friedmann's twenty four cases in which this method was used eighteen were with out sepsis and showed rapid healing. Of the six cases with grave s psis recovery resulted in three According to Kuhn (73) the back pressure in Bier's hyperæmia is only from 50 to 100 mm Hg

Following a series of experiments on himself in 192 von Wasserman (119) announced histo plast a preparation containing an extract of the live staphylococcus This is applied locally to the furuncle The inflamed focus absorbs the staphyl ococcus antigen and after a fifteen to thirty minute reaction there is a diminution of the pain Hofmann (54) used histoplast on seventeen cases and found it to exert a favorable influence upon early furuncles Shalfeld (106) and Kleeberg (66) also recommended histoplast and Horm teche (116) apply to furuncles a gauze dressing impregnated with an antistaphylococcus vaccine with a concentration of about 10 000 million per cubic centimeter which is made from cultures of staphylococcus aureus taken from furuncle pus. They clum that the use of this vaccine results in abortion of the infection in many cases and in suppuration and resolution within twenty four hours in others Wiegand (1 1) describes a salve called staphimun which he rubs into furuncles to cause Simultan Immuni (riesbach (38) uses cuti leukogen guttaplast on water proof gutta percha to gether with internal injections of staphylova

Vaccines have long been employed in the treatment of furunculosis. They are of the autogenous and polyvalent varieties The autogenous vaccines are prepared from cultures made from the patient's furuncle and are useful in about 50 per cent of the cases to prevent the development of other boils Gruca (42) has had a very favor able experience in 120 cases with the vaccine treatment combined with opsonogen evere ca s such as orbital furuncles and furun cles of the upper hp he used 200 million staphal

ococci the first day 750 million the second 1 000 million the third and 1 000 million the fourth

A hopeful aspect of furunculosis is the possible relation of the condition to an excess of carbo The severity of furunculosis in the hydrates | pres nce of diabetes is well known but even when the urine is sugar free it is possible that a high normal blood sugar may increase the liability to furunculosis On the basis of self experience Pfahler (97) immediately reduces the carbohy drate diet to a minimum on the appearance of a Bieber (1) who investigated the blood sugar in furunculosis has used two units of insulin daily for four days and says that in four days the furuncles disappeared Stormer (117) reports good results in furunculosis from the use of twenty to eighty units of insulin daily

Payant and Huguenin (102) report a case of recurring furunculosis which was completely cured by increasing injections of first autogenous and then heterogenous blood Lotsch (87) men tions the injection of autogenous blood in the thigh The ingestion of beer verst was thought to evert a favorable influence on furuncles but this method of treatment has fallen into dis-

In 1925 Bier (4) reported the successful treat ment of twenty eight out of thirty five cases of furunculosis by homeopathic doses of sulphur administered internally. He recommended one tablet containing o 1 mgm of sulphur iodide three times daily one half hour before meals Accord ing to Zieler (1 6) Bier's method has a favorable influence on furuncles and abscess s of sweat glands Zieler uses o i mgm of sulphur iodide (sulfjodat) which is made by mixing together sulphur iodide D; o i mgm and sulphur iodide D6 o ooo1 mgm Heinemann (46) reports success ful elt experience with the Schwahe sulphur iodide D3 tablets

Heulten (47) has found homeopathic doses of sulphur useful in furunculosis of the external auditory mentus | l reeman ( 9) advises 1/6 gr of

calcium sulphide three times daily

Oliver (95) gives one capsule containing a gr of bisulphate of quinine three times daily for two days and then two capsules for two days three capsules for two days four capsules for two days and finally five and six capsules each for

Of considerable interest is the treatment of staphylococcus infections with tin and its compounds Tin was first recommended in 1917 by Froun and Gregoire (34) who had observed that the tin workers of Beruce Trance seldom suffer

from carbuncles and that tin powder is a popular rem dy for the disease in that district various experiments they claimed that tin its chloride or its oxide when added to ordinary bouillon culture medium strongly inhibits the growth of the staphylococcus under anaerobic conditions under aerobic conditions the growth of staphylococcus is not hindered but the viru lence of the organism is diminished. The intra venous injection of the chlori le or hydroxide of tin into rabilits twelve hours after the intra peritoneal injection of the virulent staphylococcus retarded the death of the animals for several days Frouin and Gregoire conclude ( ) that metallic tin and tin o ide were absorbed by the directive tract (2) that tin vas innocuous to the ingesting animal (3) that tin had a heneficial effect on staphylococcus semticemia and (4) that the bactericidal action of tin and its com pounds justines its use for patients with staphyl ococcus infections More recently Ri o (103) concluded after experiments that the action of tin the protoxide of tin and the bisulphate (2) of tin on the staphylococcus in itro is e treniely loul tful Poliakoff (90) investigated the ability of the blood to destroy lacteria followin the administration of tin in the form of stannoval using the method of Wright. He found that at least in healthy persons stannovyl causes no in crease in the power of the blood to destro; bacteria

Froum (3) studied the effects of tin administration in animals. He found tin in the urine tventy se en days after its administration by mouth had been stopped. He experiments apparently justify the use of stanno vi in staply vlococ

cus infections

Gregoire and Frouin (37) produced in stannoval a compound composed es entrally of metallic tin and tin oxide. They state that they used it successfully in tifty cases of turunculosis and behe e that it has a specific action upon the staphylocic cus Other clinical reports are not lacking Hude lo (56) reported six cases of furunculosis cured by In one of these a case of axillary adenitis vaccines had fuled to cause improve ment Bruhl and Michaux (7) used for three years with favoral le r ults intramuscular in jections of colloidal tin Phocas (o8) reported that cases with suppurating wounds which gave staphylococci in cultures vere mad culturally nentti e by the administration of tin Compton (16) successfully treated tive cases of Iurunculosis one case of acne and one case of infects e derma titis with stannovyl The dose of stannovyl is os to 1 gm (four to er ht tablets) daily Comp

ton s patients took in all from o to 410 tablets Morland (92) after acquiring his third carbuncle took six tablets of stannoval. The infection le an to diminish on the se ond day and the lesion disa; peare I without openin, in ten days Hudelo Montlaur and Drouin (57) believed that the tin should be in a lipoid medium in this form it seemed to be a specific a rinst turunculosis. In 1025 Poliakoff (90) reported in detail five ca es of furuncles treated successfully with stannoval I evy (8,) prused the action f tin in the form of hordo tan In the cases of forty children under twel e years of age who were suffering from hordeolum he gave from one half to one tablet two to three tin es daily by mouth

The use of man anese in infections has at tracted considerable att. ntion in the British lit. erature. Manganese is not bacteric lal in vitro (Martindale 80) and its beneficial action is thought to be a vital one as it is believed to act as an oxidi ing catalyst or oxidase. Watson Williams (120) used man anese in the form of one per mill collor lal suspension and in a dosa e of o 5 to 5 c cm He reported nine cases to show that man ancse powerfully increases the resist ance of the tissues to antral as to any other local infections I i ro McDona h obtained excellent result from injections of man anese butyrate in the treatment of whitlov perforating ulcer of the foot double quinsy vaccination erysipelas an i multiple mastitis He praised its action in boils carbuncles and gonococcal urethritis Young (1 4) speaks of the dramatic results from intramu cular collosol manganese injection and reports a case in which the collo of manganese was administered by mouth To an infant of eighteen months with boils he gave a minims of collosol man anese in water three times fails by mouth after food At the end of three days the de elopment of boils was arrested but the dosage was increased to 5 minimis three times a day for three days to 6 minims three times a day for three days and finally to 7 minims three times a day for thee

Wilmoth (t ) I elieves that rog r of sodium citrate four time a day will injurely the servetion. Ferguson (o) is of the opinion that mercury stimulates the production of the blood cells. He reports about fifty cases of furunculosis bene inted by from one to three injections of z gm of mercury salicylate gie in intramiscularly. Harris (44) reports a case of masal furuncle which had been microsed with a resulting septicemia. The condition was successfully treated by the injection of mercurochrome. I arrell (o) had a case of

blood stream infection due to a carbuncle Blood culture showed staphylococcus aureus Two days after the intrivenous injection of 15 c cm of 1 per cent mercurochrome the blood culture was negative Vine days later pneumonia de veloped and again the blood culture was positive Twenty cubic centimeters of 1 per cent mercuro chrome were then given intrivenously Pecovery followed

Klingmueller (68) uses subcutaneous injections of olobiutin (1 10 per cent oil turpentine solution)

Non specific protein therapy has been advocated Aolan has been used Ziemann (i, ) employed intravenous injections of yatren casein an antiseptic and bactericide composed of iodine (five parts) ovychnolin (eight purts) and sulphonic acid (seven parts) combined with sodium bicarbonate to neutralize the acid radical. It may be used externally orally intravenously or subcutaneously.

Increase of elimination by laxatives increase of fluid ingestion and bodily and local rest are

to be advised

When incision or injection is decided upon in the treatment of furuncles and carbuncles a choice of anæsthetic must be made Ethyl chloride recommended by Franke (7) is useful but must be properly applied to produce a good anæsthesia and to prevent the very marked danger of gangrene. The injection of a local anæsthetic is approved by Freeman (29) and Farr (25) but is disapproved by de Takats (19) Axhausen (1) uses novocam before glow needle therapy Sometimes it is possible to block the sensory nerves supplying the infected area by local anæsthesia For anæsthesia of lip and nose furuncles Klinger (67) has injected i per cent novocain into the supra-orbital nerves. Wilmoth (122) uses hyoscine morphine anæsthesia Aitrous oxide or ethylene are probably the best

Griffiths (39) outlines his treatment of car

buncles as follows

r General treatment (a) measures to merease the patient's resistance to the spread of infection (b) elimination of towns (c) induction of sleep

Local treatment (a) relief of pain (b) removal of necrotic tissue (c) arrest of infection in surrounding parts (d) epithelization of raw surface after separation of sloughs

Chiari (14) outlines the following treatment of

lip furuncles

Mild cases (r) heat (2) rest (3) prohibition of speech (4) fluid nourishment (5) with the appearance of fluctuation a small incision with the cautery

Transitional cases (1) autogenous blood injections (2) simple central cauterization (3) hyperemia (4) special heat

Serie cases (1) autogenous blood injections (2) hyperæmia (3) splitting thermocautery in cision (within the infected area)

Carp (13) studied r53 cases of carbuncles at the I resbyteran Hospital New York in an effort to compare the ments of four different methods of treatment v12 (1) N ray irradiation plus accessory therapy (2) surgery plus accessory therapy (3) conservative treatment and (4) blood circuminjection without accessory treit ment. Because of the dissimilant of carbuncles and the lack of a definite scheme of tabulation it is extremely difficult to compare methods of treatment. He presents the following conclusions

for consideration
r In large carbuncles diabetic and nondiabetic the treatment of choice is radical surgery

In small superficul carbuncles and in some large carbuncles including those of the face \( \) ray therapy as an aid to conservative therapy (poultices carbolization etc.) has given good results. If however improvement does not occur in from three to four days other measures (sur gery circuminjection of autogenous blood) are indicated.

3 In diabetic carbuncles the prompt establishment of free draininge is essential to prevent spread of the infection \( \sigma\) ray therapy without surgery is contra indicated

4 Circuminjection of autogenous blood may be used in selected cases and is a valuable adjunct to the treatment of accessible spreading infections by any other method

5 There has been no proof in the clinical cases analyzed in this series that X ray therapy alone effected a cure Reports in the literature seem to confirm this experience

#### SUMWARY

Each furuncle and each carbuncle is a problem in itself. There are no inclastic rules governing the treatment of these types of infection. In but few surgical ailments is a like amount of judgment and expenience required to make an accurate diagnosis of the type of the lesion its state of progress and the most appropriate form of treatment. The high morbidity of furuncles and carbuncles and the mortality of the latter particularly those on the face demand the most serious thought and discrimination in the choice of treatment. The surgeon must have a thorough appreciation of the underlying pathology and

s alue

physiology. He must keep in mind the risk to the patient the amount of pain and the durition and expense of the treatment. In our present state of knowled e the safest treatment in that which best I ring aloud breakzation of the infection if possible effective druin e and rapid healing. Yuny of the newer method proposed are well worth study by the converted to the converted to

Surgeons will want with interest further r ports on autorenous blood circuminection and the criteria which govern its use. The alministration of times a simple that it would doul tless be widely ad pied if more recent and imere abundant reports of its usefulness were available. The danger of traumant in to necrotized indictions from premature or ill ad used inci in as his become a matter of more eneral knowledge.

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per tible fluct t dli g that since cased: iz by the depend t po tue e ughing crising a d igit compression of th jugular ets. In om ca es the le n man not be apparent unle soome of the fat r that et as enter a renal e nou per ure a e act ve. The man may be blu h and may be as jim it aken for a mening cele. The roents o gram ge ally ho an area of r refaction in the skull.

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MRRSAS 7 MD

The temperature is irregular convulsions frequently occur and there is marked anorexia and difficulty in nursing due to the pus in the nostril

The lesion may heal with or without the persis tence of discharging sinuses or the development of secondary purulent foci or death may result before

secondary foci have time to develop The author reports to o ca es both of which were

due to the staphylococcus nureus I IIN II GARLECK M D

#### EYE

Cohen M killian J A and Kamner M Com parative Chemical Studies of the Ocular Fluids of the Cerebrospinal Fluid and of the Blood Arch Ophth 19 8 171 39

The depression of the freezing point was deter mined in nine specimens of vitreous filtrate nine specimens of aqueous humor and three specimens of cerebro pinal fluid of oven all taken immediately after death and from the data obtained the osmotic pressure and molar concentration were calculated. The freezing point depression and o motic pressures were found to be almost identical. The molar con centrations being similar it is a problem to explain why the vitreous bas a greater viscosity than the aqueous humor or cerebro pinal fluid

The vi cosity of blood serum vitreous filtrate aqueous humor and cerebro pinal fluid of the ox and of water were determined Aqueous humor and cerebrospinal fluid hav visco itie slightly greater than the viscosity of water and with rising tempera tures their curves decline parallel with that of water The viscosity of vitreous filtrate approximates that of blood serum Blood contains oo times more pro tein than vitreous filtrate and the latter has a protein content comparable with that of aqueous humor and cerebrospinal fluid. Hence the protein contents of these fluid cannot be the sole factor determining their viscosity

The calcium content of vitreous filtrate and of aqueous humor is greater than that of cerebrospinal fluid In a comparison of certain inorganic compounds in vitreous filtrate aqueous bumor and cerebrospinal fluid of oxen it was found that the average content of chlorides and sodium in the cere brospinal fluid is greater than the average content of these substances in aqueous humor and vitreous filtrate the ocular fluid contain more pota sium and morganic pho phorus than the cerebro pinal fluid and the concentration of chlorides sodium and in organic pho phorus in the aqueous exceeds that in the vitreous filtrate

In conclusion the authors state that because of the lack of uniformity in the concentration of cations and amons in these three fluids it is doubtful wheth er we can explain the origin of all of these fluids by a simple physical process of dialyzation from the blood plasma unless we postulate a difference in the perme ability of the separating membranes

LYMAN I COPPS M D

Cosgrove k W and Hubbard W B Acid and Alkall Burns of the Eye In: Sirg 1928 ltxtvn 80

In a study of the treatment of acid and alkaline burns of the eye the authors performed experiments on rats and rabbits The irritants used were sul phuric acid nitric acid phenol sodium by drovide and ammonium hydroxide Their findings indicated that regardless of the concentration of the chemical and the length of time that clapses before treatment is given the best results are obtained from irrigation and that neutralization cau es definite damage

VIRGIL WESCOTT M D

Rosenow E C Foeal Infection and Elective Localization in the Pathogenesis of Diseases of the Eye in Otol Ri of & Lary 1gol 19 \* \* 1 852

The author reviews the more important clinical and experimental studies on the pathogenesis of nonsyphilitic and non tuberculous intrinsic infections of the eve and the requirements for the successful application of the methods of study. The method of intravenous injection of primary (often mixed) or freshly isolated pure cultures of material from foci of infection has led to a better understanding of how these seemingly harmless localized areas of infection often small and in obscure places cause ocular mani festations and by this method the causative organ isms usually responsible have frequently been isolated

In the light of the newer knowledge foci of infection wherever found should be looked upon as areas where bacteria and their toxic products are afforded favorable conditions for entrance into the blood or lymph stream where they may acquire or main tain a peculiar or relatively high invasive power They make for a forced relationship between the parasite and host

The good effects commonly noted following the removal of foci of infection support the experimental findings justify a thorough consideration of their existence and call for removal or ure as far as possible of focal infection in every ob cure clinical case The successful application of the methods of study while simple require close to peration be tween the bacteriologist and clinician. The experi mental results indicate clearly that those lesions in the eve which are associated with exudation even though shabt are usually due to the localization of microorganisms while the milder manifestations may sometimes be due to the absorption of toxins which are formed in the focus or elsewhere and reach the eye in the blood stream

Localization of the bacteria in the eye may some times be accidental and a part of other disease manifestations. However the animal experiments now amply corroborated indicate clearly that in most instances localization and growth are due to peculiar acquired or inherent properties within the bacteria themselves and the power of the microorganisms to localize electively and that this is due in part to the production of a to 1 or po son which affects spec fi cally the tissues n hich local zation and growth Among the micro rgan sms solated high manifested the greate t elect vilocali ing program rail the which the common forms f dise so of the ev has

been repr luced 1 a teptoco cus which u unlly forms g cenish or I ghtly hæmolytic coloni s torms g cenish or lightly hamolytic coloni s blood agar and reque ard do ygen ten i n fo its isolati n d from v hi h auto enous th rap ut o vacci es of grat alue n man case h v b n ena ed

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these fowls is reinjected into rabbits and mice it may attack the lens of the young in utiro It has no effect upon the lens or other orbital contents of the mother Davis suggested that a solution of the emul ified lens of an animal injected into man might cause the active formation of antihudies which will cause the absorption of lens opacities

The author treated the following types of cata racts according to Davis directions traumatie twn cortical fifteen sclerosed nucleus five diabetic four and cataract complicating glaucoma one In fourteen case the cataract progressed and in tbirteen no change in its progress was noted In no instance was there any absorption of the catar act or improvement of vision

LYMAN 1 COPPS M D

Retinitis Punctata Albeseens Sowers A J Ophth 1928 x1 3 5 4

Sowers reports two cases of retinitis punctata albescens in members of a family described by Lauber seventeen years ago In both cases good vision had been retained but there was hemeralopia The fundus picture was practically unchanged

The condition is familial congenital and bi lateral and occurs in negroes as well as white per sons Consanguinity is an important factor in its development Hemeralopia is found in two thirds of the cases

The author discusses the differential diagnosis He states that treatment with arsenicals and mer cury is said to be beneficial

SAMULL 1 DURR MID

es L W Retinitis with Massive Exudates Jones L W

The author reports a case of retinitis with mas ive exudate and small changes in the blood vessels in the right eye of a boy mine years of age whose only com plaint was a swollen curvical gland. The retina appeared to be detached along the course of the inferior temporal branch The general physical examination

was entirely negative

Following a review of the literature Jones states that in von Hippel's disease the prominent feature is the blood vessel change whereas in Coat's disea e it is the exudate but the two conditions seem to he very similar. In conclusion he cites several cases in which improvement seemed to follow the injection of tuberculin though there was no visual ebange

SAMUEL I DURB M D

The Etiology Diagnosis and Prognosis of Optic Neuritis Brit M J 1927 1 861

Ronne li The Nomenclature of Optic Neuritis B t M J 192 11 866
Ballantyne A J Optic Neuritts 18 an Aid th
Diagnosis Brit M J 1927 1 869

PATERSON states that by the term optic neuritis

the oculi t usually means a certain type of morbid change which he sees in the optic di k 'Œdema and inflammatory changes involving parts of the optic nerve nther than its distal end he calls retrobulbar

In Paterson's opinion the classification of cases nf optic neuritis should be based upon a study of the hady as a whole and not on the ophthalmoscopic picture alone When the condition is studied from this angle the cases associated with intracranial pressure will be found to form a class by themselves not unly on account of the disk changes but also on account of the absence of pronounced visual dis turhances in the early stages

In the study of the disk changes the use of the Gullstrand nphthalmoscope is of the greatest im portance Any noteworthy defect of central vision should he earefully investigated. In the determina tion of the site and extent of the intracranial disturhance a eareful study of the visual fields may be of great aid The results of lumbar puncture \ ray examination the Wassermann test and the neuro logical examination must also be taken into consideration

Cases of increased intracranial pressure with changes in the di k should be operated upon early in order that the patient may have the best possible chance of retaining vi ion. When once the stage of optic atrophy i reached operative treatment is disappointing Medical treatment seems to offer a prospect of cure only in definitely luctic cases I rolonged increased intracranial pressure is caused mainly by brain tumors cysts abscesses gumma tous or tuberculous nodules intracranial aneurisms extravasated blood sinus thrombosis meningitis

and deformities of the skull

Optic neuritis not accompanied by increased in tracranial pressure is due primarily to inflammatory processes in the nerve or its sheath which may lead directly or indirectly to changes in the disk. type does not present the transparent glassy swelling of the papilla so characteristic of the ordema accompanving increased intracranial pressure. The disk rapidly becomes less transparent and the laming become invisible. The roots of the vessels are veiled by swollen nerve fiber tissue This veiling extends some distance from the disk. The color of the disk more intensely red the years are apt to be dis tended and the arteries are small Central scotoma with failure of vision is common and depends upon the presence of inflammatory foci in the course of the nerve In a large group of ca es the condition is due to toxins in the blood and the course and prog nosi seldom appear to be modified by the presence or absence of visible changes in the disk. In the carly stages these ebanges are usually absent and the diagnosis must be made from a careful study of the visual disturbance the history and the general symptoms As a rule only one eye 1 affected
Amnng the well establi bed causes of retrobulbar

disseminated sclerosis holds first place There are a large number of acute cases whose origin 1 not knnwn Retrobulbar neuritis is believed by many to be due to involvement of the optic nerve the group of diseases under discussion is rarely quite hopeless but va iest naccorda cet the totology and the cli ical type of the cond tin. A common find ng n these c nd t ons is temporal pallor of the d ks.

The a atom cal bas of the acute forms i doubt less in i equila pli eque formation in the opte neve. Studie of dissem ated selers is mediti dopathic; trobulbar neutrit and retrobulbar new tris in cases if them dit in a short hith the position of pecal interest is the clation of the vit cylinder ad medullary sheath. In disseminated selerous litt opt ener elessons the midullary sheath is destroyed before the axis excluder.

be manife ted both by acute diseases of the optic nerve and by quite slowly developing atrophy re semble gentoxication ambly opta. The prognos s in

the macular thers h uld be termed retrobulbar n ut but f mu the borne in mind that not every 1s ase with ormal dik a d central co toma the held ret obulbar neurin. The pecul r co d iton k own s choked dik with sudde mit all bil dess usually calls for immed teop rati e treatment by treph atton but there are a in high recovery or unprovement

of a no curs eithe pontan ously or after non

operat e t eatment

I li e se characte zed by a tendency to attack

conditions and (2) optic neuritis or neuroretinitis of renal disease

The optic neurits of meningitis differs from cerebral tumor in being less prominent and more diffuse but in tuberculous meningitis the disk swelling is apt to resemble that of intracranial tumor being higher and more circumscribed

The optic nerve affection which has been most frequently reported as being found in association with pregnancy is chrome retrobulbar neuritis but there seems to be considerable controversy regarding the picture and cause of this condition. Much has been written on the rôle played by intranasal conditions in its citology but there is as yet no agreement with regard to the following problems (1) the type of nasal disease which gives rise to optic neuritis (2) the clinical characteristics of optic neuritis due to disease of the nose and nasal sinuses (3) the period at which operative intervention is indicated (4) the operation of choice and (5) the manner in which operation causes improvement or cure

There is no characteristic defect of the visual field which distinguishes optic neuritis of nasal sinus origin from other types but a careful investigation of the visual field may exclude pituitary tumor and other conditions giving rise to characteristic changes

in the visual fields

Multiple sclerous probably accounts for a larger percentage of cases of retrobulbar neurits than dis eases of the nasal sinuses but since optic neurits may be an isolated condition it may be necessary to wait a considerable time before the diagnosis of multiple sclerosis is confirmed by other nervous manifestations. Hensen has emphasized the importance of the duration of the central scotoma in retrobulbar neurits due to multiple sclerosis.

With regard to the question of the operative treatment of these cases Ballantyne is inclined to adopt a conservative attitude. He believes that it is usually safe to recommend medical treatment for from six to eight weeks. If improvement is not noted and the condition of the nose is suspicious at the end of that time operation is justified.

LISLIE L McCox M D

#### . . .

Fraset J S A National Investigation of Oto scierosis Proc Roy Soc Med Lond 1928 xx1 387

Fraser finds otosclerosis in about 10 per cent of his patients and believes it is more common than statis tics indicate. On account of the great loss of national efficiency for which it is responsible he urges that a national investigation of the condition be made

JAMES C BRASWELL M D

ARES C DRASWELL M

Lillie II I General Sepsis of Otitic Origin Treatment by Blood Transfusion and Germi cidal Dyc 1rch Otolaryngol 1928 vn 30

The author reports twelve cases of general sepsis of otitic origin treated by blood transfusion with or

without the intravenous injection of a germicidal dye. He is not prepared to say whether the combined method or blood transfusion alone is preferable as the patients who were treated with blood transfusion alone seem to progress as well as the others

Untoward results have been reported from the use of the methods under discussion but the dan ger can be reduced to the minimum if the services of an expert hematologist or biochemist are obtained Interns and house officers are usually not sufficiently experienced in the use of these specialized thera peutic measures

From his own experience and that of others the author concludes that blood transfusion and the injection of a germicidal dye as adjunct therapeutic measures are rational if the cases are properly chosen and the agents properly prepared and administered. The supportive effect of blood transfusion shortens the convalescence and the germicidal dye has a curative effect.

Lilbe neither advocates nor defends the use of these measures but believes they have a place in the management of sepsis of otitic origin

#### NOSE AND SINUSES

Hempstead B E Intranasal Surgical Treatment
of Chronic Maxillary Sinusitis Arch Oto
la vagol 1047 vi 426

In the technique used by the author for the intranasal surgical treatment of chronic maxillary sinusitis anæsthesia is induced by means of occaine epinephrine mud on applicators placed in the region of the anterior ethimoidal nerves and the spheno palatine ganglion. A pledget of cotton soaked in a to per cent solution of occaine is placed under the lower turbinate. The mucous membrane at the anterior end of the lower turbinate is injected with a o 2 per cent solution of occaine.

An incision is then made through the anterior attachment of the lower turbinate so that the latter can be broken upward and the lower meatus ex posed to full view If a flap is desired to cover the edge of the window the mucous membrane to gother with the periosteum is dissected free at the time The Wilhelminsky trocar is inserted about half way back and the wall is broken through This allows the introduction of the cutting forcers The window is enlarged posteriorly as far as desired With a modified Kerrison punch the window is brought far forward If it is sufficiently large there is little likelihood of its closing particularly if the flap of periosteum and mucous membrane is saved and laid over the raw edges. An effort is made to make the window level with the floor of the nose The edges are smoothed with either the rasp or the hand burr The antrum is then cleaned with the suction tube with the least possible trauma. The curette is not used in the antral cavity. A fair view of the greater part of the cavity is obtained by introducing a nasal speculum

h used In cases of smaller les ons the nodes of the nock are removed in the following day if possible to ealocal raction occurs. If the mouth lesion is test to radium sused over the neck, and the nodes termo da soona the local condition permits. In the teatme t of cancer of the jaws surgical dutah rmy is employed for the local lesion. The of of the ckale is now the office of the horal lesion.

#### NECK

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tamponment of the cavities and fistula with iodo form gauze

Superficial foci may be cured by potassium iodide alone. Potassium iodide does not destroy the fungus but acts rather on the neoplastic tissues and through them upon the parasitic foci causing the latter to break down and thereby quickly establishing dramage to the surface.

In some cases pneumectomy has given good results | Morris II Karn M D

Sistrunk W. E. The Technique of the Removal of Cysts and Sinuses of the Thyroglossal Duct S rg Gynec & Ob t 19 8 thy 109

Sistrunk explains the formation of cysts of the thyroglossal duct on the busis of an abnormality in the development of the duct following the descent of the thrond gland. When the duct fails to close completely and the foramen ereum fails to remain open a cyst is formed by the retained secretion. The cyst is always in or near the median line.

In the technique used by Sistrunk for the removal of cysts and sinuses of the thyroglos al duet the course of the sinus tract is outlined with injected methylene blue. The cyst is then exposed through a longitudinal evesion and dissected free from the hood bone from the center of which a small segment is removed. The foramen execum is then located and the duct and surrounding tissues are cored out from below upward to the foramen.

The author gives exact directions for determining the course of the duct. This method obvintes the risk of fragmentation of the duct with retraction and loss of egments.

Hertzler A E The Pathogenesis of Goiter Considered as One Continuous Disease Process incl.

Su E 10 8 X 1 61

Hertzler distinguisbes two main types of goiter the colloid goiter sometimes called adolescent goiter and the toxic goiter but he states that all goiters may well be considered as stages and variations of a single through disease.

The colloid gotters show large acmi filled with colloid. In the interstitual walls there is frequently colloid. In the interstitual walls there is frequently the colloid activity. These areas become encapsulated and the cell conglomerations may or may not show a lumen. It this stage the patient may or may not present clinical samptoms. Macroscopically the surface of the gland may be smooth or bosselited. If the bosselations become deeper on palpation the gland may appear as an adenoma though the his tological structure is not changed.

The picture of toxic adenoma differs from that of the innocent stage of the gotter only in the greater vascularity. Various areas of the gland are still of the old colloid type. In other areas the cellular activity is marked. The acute toxic stage develops usually in persons previously unaware of the presence of a goiter. In histological cettons colloid areas may still be found. If there are symptoms of toxicity, there will be areas of prohefeation and

if eye symptoms are present there will be papillated areas. The chief change as compared with the toxic adenoma is that the gland becomes firmer and more sensitive to pressure.

In conclusion the author says medical treat ment during all except the early stages of goiter is as deadly as medical treatment for cancer

I S MODERN M D

Iodine in the form of Lugol's solution was introduced by Plummer in the pre operative and post operative treatment of patients with exophthalmic gotter in 192 By differentiating adenomatous gotter with hyperthyroidism and exophthalmic gotter Plummer had made it possible to avoid the danger of indi criminate use of iodine and its ub scouent unsatisfactory results in eases of adenomatous gotter. In an article published in 1025 While preparing an article for Plummer savs publication in Oxford Medicine I suddenly became convinced that there are many reasons why the action of iodine might have been misinterpreted The chief of these was the lack on the part of observers of a correlation of the fluctuating data throughout the course of the disease on a clear cut hypothesis of the presence of two factors whether or not the factors are two products of the thyroid He states further Many reactions that might follow the administration of iodine were The complete iodinization of the considered thyroxin molecule in the tissues of the body seemed possible but not probable. That the iodine might lead to more complete indinization of therevin in the gland or that it might block its discharge scemed more probable. Irrespective of the degree of stimu lation the thyroid will not elaborate much of the abnormal ecretion if a sufficient amount of iodine

In the series of cases the epithchum of the acime the connective tissue blood vessels and lympho evic cells of the stroma and the colloid found in the acim were studied and the results with and without the administration of todine were compared. Parif fin sections of 0° of throids were studied too of the patients had received Lugol's solution and too bad

The most noticeable change in the thyroids after the administration of iodine is the increase in the mount of colloid. Such increase gives a histological picture similar to that of colloid goiter in which there are hyperplastic areas. The colloid also stains lighter and does not appear vacuolated as in cases of exophthalmie goiter.

Varine and Williams in 1908 published the results of a study of seventeen patients who had heen treated with iodine pre-operatively. They came to the conclusion that there was an increase in the amount of colloid following iodinization

The hyperplasia noticeably decreases after the dministration of iodine The word hyperplasia used to describe a co-dition in the parenchyma of he gland in which the number of cells appear to rcrease alth ugh this was not pro ed
In the cases in hich iodine was given and in

ho n which it was not given the amount of olloid ncreased as the amount of hyperplasia ecreased a po t m ntioned in 908 by Marine nd Wilhams as true in general for thyroid glands.

The columnar ep thelium also changed after the dministrat on of iodine. It was not present in as arge quantity. There was a decided increase in the mount of cuboidal ep thelium 1 ing the acini a ertain va able percentage of which was low uboidal and som of which was so flat as to lose ven the characte stics of low cuboidal epithelium he cells being low in proportion to their width at

h base In the study reported the amount of connects e issue as compared with the amount of parenchy natous tissue and colloid seemed to be decreased

ft r the admini tration of iodine

The lymph cytic are s in the gl nd presented the ame anatom cal pictu e after the admin stration find e as when todine vas not given. They were resent n small nodes or without organization The blood vessels seemed smaller by compa ison lthough the could not be determined a thecertai ty

ince the change if any vas so small a to requir n the larger at ries an e act compa son of the ame blood vessel before an i after the administ a

ion of odine

Mar ne and Lenhart in a d scussio of the rersion hi b takes place in the thyro d in cases x phth lm c go ter not t eated by iodine d scribed atom cal changes that cannot be d to guished rom the change which takes pla e afte treatment with sodine acept that after treatment with sodine he hyperplasia seems to show a greater tendency o d sappe r vithout lea ng any defi ite trace f ts presence

Bowing H H M lignant Tumors of the Thyroid Gt ad Treat d by Operation Radium and the Roentgen Rays Am J R tg n l q 8

In the application of radium (salt) or radon through drainage tubes the strength should be about somem or mc The filtration should be equal at least to o 5 mm of silver and hen possible 1 0 mm of brass should be used The vall of the rubber drain age tube should be at least 1 o or 2 0 mm thick The time of application var es being dependent upon the presence of absence of important structures such as blood vessels and nerves n the treatment field Moreo er if the applicator is just beneath the skin the time should be red ced at least one third or one half the average t me When surgery is contra in dicated especially in the nodular fixed tumor radium needles (salt) should be bu ed through the mass the average dose mentioned here seems safe. If the tumor is of a diffuse medullary type radium surface packs of roentgen ray treatment should be chosen Surgical interference i this type should be 1 m ted to the emoval of a specimen for study The factors for rad um surface treatment seem safe but as erythmas bave occurred the time factor should be reduced to ten or twelve hours. In general the surgeon should carry bis procedure as far as safety will permit The radiologist should give full co oper ation at the time of operation and after ards If radium is not available roentgen ray the apy is indicated as a postoperati e measure

This brief study emphasi es that mal gnant goiters should be e cised if possible and decompression fol lowed by irradiation pe formed when necess ry In

lected cases the removal of ad nom ta of the thy roid seems to be a satisfactory procedure for the p e vention of malignant d sease

All cases should be class fied according to oper ability and further cl ss fied as to thethe or not the irrad ation was complete or incomplete. A care ful follo p plan should be instituted in o der that activity may be determ ned as early as poss ble

## SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Ocular Phenomena Produced by Lillie W I Basal Lesions of the Frontal Lobe J Im M 1ss 1027 | XXXIX 2000

The early localization of a tumor or abscess in the frontal lobes has been extremely difficult from the ophthalmological as well as the neurological stand point The usual ophthalmological findings are bilateral choked disks associated with good visual acuity and concentric contraction of the peripheral In cases of basal lesions of the fields of vision frontal lobe there may be rather striking ophthal mological findings which are exact enough to place the burden of localization on the ophthalmologist Of a series of proved lesions of the frontal lobe more than 15 per cent (thirteen of eighty six) could be definitely localized from the ophthalmological examination whereas the neurological data were not characteristic enough to show that a frontal lobe or which lobe was involved Loss of the sense of smell occurred too rarely to be of diagnostic value

The characteristic feature in the exact local ization of basal lesions of the frontal lobe is found in the perimetric fields. In seven of the fourteen cases reported a definite central scotoma was found on the side of the lesion four of these were central scoto mata and three were excocentral scotomata If pressure continues for a time the cæcocentral scotoma enlarges and the peripheral field becomes smaller and smaller until only a small peripheral isle of vision remains either temporal or nasal to the fivation point. This type of field was found in three cases If the pressure persists complete amaurosis is produced on the side of the lesion as was noted in one case. With bilateral or median line lesions bilateral central scotomata occur as was shown in three cases of the series. In one case complete amaurosis in both eyes was produced by a left basal endothelioma of the frontal lobe which pushed the left temporosphenoidal lobe mesially to press directly on the optic chiasm. This is an extraordi nary complication and cannot be considered part of the usual ophthalmological syndrome Chiasmal lesions can produce scotomatous field defects similar to these but bitemporal defects for form and colors are associated with the scotomatous changes and

are rarely associated with choked disks The fundal changes are not so characteristic. In seven cases there were bilateral choked disks while in only four was there a normal or pale disk on the side of the lesion with an associated choked disk on the opposite ide In the three other cases the condition of the fundi varied from bilateral pallor of the disks with some blurring to a slight blurring of one disk and a definite choked disk on the opposite side Apparently there is no definite sequence in the development of the choked disk or pale disk as in a few cases the funds were found absolutely normal at one examination and a few days to a week later an early choked disk was found either beginning on the side of the lesion before the opposite side was affected or just the reverse Again the normal disk had become pale without evidence of cedema of the disk developing on the side of the lesion Nine of the fourteen cases showed evidence of bilateral cedema of the disk during the period of observation a fact suggesting that a retrobulbar picture with a con comitant choked disk is not the usual condition

The author draws the following conclusions I Basal lesions of the frontal lobe can be local ized accurately from the ophthalmological exam

ination 2 In a unilateral lesion a homolateral central or cæcocentral scotoma associated with a normal pale atrophic or choked disk with contralateral normal

central vision and choked disk is characteristic 3 In a bilateral lesion bilateral central or cæco central scotomata are present in association with bilateral choked disk

4 Basal lesions of the frontal lobe are common (15 per cent) and can be diagnosed as readily and as accurately ophthalmologically as lesions of the optic chiasm

Sharpe W Observations Regarding Ventricular Tunctures 1nn Surg 1928 lvvv ii 1

While appreciating the value of Dandy's trans cortical ventricular puncture for the localization of intracranial lesions Sharpe calls attention to the dangers of the procedure and recommends that it be used only when a remediable condition is sus pected but cannot be localized by other methods LEO M DAMBOTE M D

Roentgenological Visualization of the Goette L Cerebellum (Ueber roentgenolo ische Klein hirndarstellung) 1cta radiol 19 7 viii 340

Goette states that satisfactory roentgenogram of the cerebellum can be obtained after puncture of the cistern with the bead bent forward. It is still to be determined however whether this method will prove of value in diagnosis

A case of cyst of the cerebellum in which roent genograms were made in this way is described

Moersen F P Tumors of the Brain and Syphilis 1 J W Sc 1928 clvv 12

Neither the serological data the condition of the fundus nor any one cardinal symptom is pathog nomonic of brain tumor or sypbilis

The presence of a choked 1 skca not be accepted as pathognomon of 1 ran 1 tumor either in the presence or absence of positi e reactions of blood and sy nail fluid. In such cases a diagnos s sh uld be attempted only if the c is nor 1 pon et a thera peutic test as uming that the patint is n it a time when 1 theripeutic ts 1 spo ble

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The diagnosi s frequently mai becaus f choked d k in spite f ser logical hages Th incidence of chiked d sk in cases of spihl i su h that the finding of choked disk in cas of su peet d bran tumo should not be accept d s a posit

d fferent al point

# tr g W M k M lignant int cra al Endo theli m t S g G t Ob i 9 1 0

Int aeran al endoth homats a e not al ass le nign A small perce ntage are male nt The ge eof malignance is judged from the amount of cellular different at a nand m toss not the condition of the cells to arrange themsel s r gular f rmatton. The malignance sg aded f m 1 to 4

Tumors grad d are the least malag nt a dare characteriz d by mor compile thiffee intent n f the cells fe r m totic fgur s and a mor l t trenden y to f m tho Is and p m m m bod In tumors g aded a and 3 th miscrosc p p tur be comes mo cellular and k s egul a regad st c ture and m tos sis mo e common Th m t malagnate turn (grad d 4) is n t r gul s turl l the c lis be ng und fe entiated and m t t c fig s being scattered th ghout

Fr m the surgical standpoint these m lg 1 tendothelomats if they his not in a led 8 rod d 1g structures a e compa ble to such m lg am timors el ewhere in the body if th, y recomplitely removed a definit ture is fit ted. How they have broken through the reap ul and ha e 1 vaded the surro ind g us e this g ad finaling mancy indicates the time to do of rein and they are 1 complitive money that they have broken through the results of finaling analysis in the surrounding the surrounding the finaling and the surrounding the finaling they are to the surrounding the surroundi

## El be g C A The Du a Mat in C n al D c m pres l Op ation l S g 3 1 5

Elsberg calls attention to the feasible in le compression tons of spletting the dua into a outer and inner laye. What has a done the thick oute laver may be rem vel and the thin elastic in erlay if it to protect the brain from injury r adh stons. The compressel brain may then e pa d to the same degre as hen the dura is completely ope d but the lecompress on ill occur more slo | I case n h the excision of the dura is a thin the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of outerlayer of lumbus different specific in the piece of lumbus different specific in the piec

#### SPINAL CORD AND ITS COVERINGS

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Ch dotomy i d ated to rele it nepan of organ c g n due to mope ble or recurrent ancer

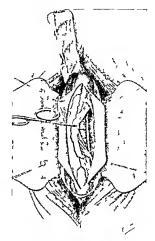
tabetic gastric crises kraurosis of the vulva painful sequelæ of spinal wounds and causalgias of the lower extremities which have resisted medical or surgical therapy It is contra indicated in the cases of psychopathic patients morphinomaniaes and cases of peripheral and body pains of mental origin Generally the operation has been done only for the relief of pains in the subdiaphragmatic part of the body When the pain is unilateral the chordotomy should be performed on the opposite side For the relief of median or bilateral pain a bilateral chordot omy is necessary. In bilateral section. Frazier makes each incision at different levels 2 cm apart in order to preserve the solidity of the cord but the authors have often left no space between the sections with out untoward results

Inhalation or rectal anasthesia induced with ether is preferred by the authors but De Martel uses local anæsthesia. In addition to general or local anæs thesia some surgeons apply a tampon of 10 per cent stovaine just above the site of ection to block all disagreeable reflexes. As a rule the patient is placed in ventral decubitus with a head support to release the thorax and neck. De Martel however operates with the patient seated because in this position there is complete respiratory freedom bleeding is le s and the blood escapes from the lower end of the wound Abundant loss of spinal fluid causes no appreciable

trouble

The seventh cervical spinous process is not an absolute landmark as the sixth cervical and first dorsal may be the most prominent The exact level of the chordotomy is unimportant The incision is made over three spinous processes The latter are then freed to the base sectioned and turned upward as a flap or removed temporarily or permanently Removal of the laminæ of two vertebræ gives suffi-cient exposure. The epidural fat is divided in the midline and pushed to each side Perfect hamo stasis is essential The dura mater well exposed and dry is split the entire length of the wound. In one method the pia arachnoid is left intact so that the spinal fluid under it acts as a magnifying lens and the cord dentate ligament and nerve roots float in the fluid De Martel grasps the dentate ligament across the arachnoid to pivot and incise the lateral cord In another method the meninges are incised and retracted by means of threads passed through the borders The spinal fluid escapes The surgeon stands on the side opposite the cord section

After the lateral cord is well freed a tooth of the dentate ligament is gra-ped by forceps and loosened from the dura Traction on the dentate ligament (the base of which is firmly attached to the cord) pivots the cord so that the anterolateral surface be comes plainly visible. When cord rotation is faulty there is danger of sectioning the pyramidal tracts If the dentate ligament tears from the cord or is poorly developed the cord is best rotated by grasp ing the pia mater directly by harpooning the cord at the lateral border with a minute crochet needle the two dentate ligament teeth having been freed if



Γ<sub>1</sub> I Rotation of the spinal cord by traction on the dentate ligament. The dotted line indicates the le-el of the superficial section of the cord

possible Displacement and rotation of the cord should be done with gentleness and extreme care

The landmark for the section is the anterior roots After the escape of the spinal fluid these hug the cord and are difficult to see They may be caught in the clamp and not observed until released or if slender and short may be invisible. If they are not found at the cord they should be sought at the dural exit and retraced to the cord

With a small oculist a tenotome puncture and in cision of the pia mater are done from the anterior roots to the dentate ligament Through this incision the special triangular knife is introduced. To make the section correctly as regards length and depth appears simple but is extremely difficult. A good section has the shape of a triangle with a base of 3 mm and a height of 2 5 mm The knife must not be passed too far backward or forward A misplaced section causes no or almost no analgesia and is apt to produce serious pyramidal injury

The first essential is an accurate surface incision The posterior end should be halfway between the posterior and anterior roots at the dentate ligament and the anterior end should reach or even pass the anterior roots For good orientation the degree of

cord rotation must be estimated



rg A fst nofth helt my

The ff ct of cutting the gray matter rith a te or horn is unknown. To a old pur midal tact njury the surgeon tend to cut t far fo ard (ha mless nitself) and not eno gh ba kv d For a good result the pyramidal tract should be grazed even slightly cut because of the inte mi gling if the fibers for short distance The authors dvi e ta t ing with too small a section and the making an xami tion to see if the i c s on ea heath anter or oots letti g the co d fall nto place nd not ng th poste or nd of the section An neis on h ch do not gap is not deep n ugh Ther s no oh; cti to repassing the knife To guide the section Fra e passes a suitably sized cur d n edle i to th f om the de tate ligament t the nt ri root and seetio s th co d v ith n the con avity of th with a small curved b stoury

In the cloue of the spil canal the author generally replace the p nous poces es If good hamo stasis has been obtened danag nneces

After the op r t on the patient b s jat a has back. A t air quenity the c i fev r fo the first for tyeight hor. The suit was a r m wed on the tenth day a d the patient is sallowed to get upon the tenth day a d the patient is sallowed to get upon the tenth of y. Fo from three to eight days complimits often made of viewe sirn ton pans in the vasit and the avent of the tree sirn ton pans in the vasit and the avent of the control to the cord. For the privation Leighton and ses geat gentle ness i the operation and positions and cotomy at the stee of the chrotomy. In nearly il case there is u nary ret int on for m to to eight days not consolid the reposted for m to to eight day and coc sonally the reposted

fr mt to 10 eight day and occ sonally th repeated catheteration nec s veases infection of the bladde. In rare cas s ur narv no timence has occurred. Trophic lesion the slought g with hare fairly fequent complication s ar due directly to the chordotomy, as is e dent for the trainity planty and sit s(s c um h el froch after call etc). The cut it is slought good to the solid planty of t

eithe from too posterior a section or small centers of necro du to inter uption of radiating vessels inbout sectio of the tract. When pyram dal signs are besut the funct onal recovery is generally rapid

Chordot my al vay sleads to extreme muscula hy potony. This is most marked in the lower limbs but is n tenough to r leve co tractues. The ope atton is see on the in itself but because of the patients g n ral conditin. In cases of cance the early more this 5 pc reent. In late cases the operation does not eem t has n nor tard d ath. In non cancer ous can the arly mortal ty is 6 per cent.

Chordstomy undoubtedly favors urma y troubles ad may hat end eath if the patient's resistance to it cton; lov but whin it is successful it assurs is himmed ate absolute and defin te relef from pinth it shill done unheastatingly in cases for nor aft incorrect oper 1 ons the relef may be negative or incomplet. In certain unexplained to the authors hier in edit of the control of the patient of pain has smill distributed for the may be not as the following the control of the patients of the control of the patients of the control of the control

satio Ch dotomy cau es no ch nge of tactile de ps nish lty r sense f position. He ce t s super r to p st ri adi tomy h ch ab l shes all sen at on W r C Burker M D

## SYMPATHETIC NERVES

M tin E G Th Ply i logy i Musele Inn rv tin with Spe ial R fe ene t the Infle e co of the Sympathetic System J B & J I S g 9 8 8

Foll ing a brief ie v of the O k and theor 5 of Hunter n.i R yle the auth r d scusses the po ble m chan ms of muscle tone e ting the my tatic effe of Sh rri gton and Liddell as th ac epted e pl nati n H tates that there s surely yous upply t at least some if a sympathet e not aff of the muscle fibe a both red and p le but th e act nature of the rôle it plays a not kno n If we accept the theory that tonus nd the exag ge ted t nus seen in spasticity a e m diated th ough the som to nr us system the q est on arises as t what ole the sympathetic fibers play in muscle to us and hy a ce tain amou t of improve in ce tain ca es of spasticity after ment occu div s on of the sympathetic ne your supply to the part Th bery tons of O belt and h s p p! se m at l a t to suggest an an wer

Orbels fo d that it skeletal m sele of the frog is stim lated rhythmically through its omatte ner entif if gue is to mad then hile the smatter or now is mulaton in sec to tuned the simpatchet inner ation to the muscle is all o it mulat d the cot ctions mpr ve in height. The for the sympath tie is mulat on has in some vay affect die mule causing it to per in better than before the symp theter as stimulated or credit on the sympath ties as stimulated in the sympath ties as the mulaton in the sympathic in the symp

tion is correct the removal of the sympathetic nervous supply to a muscle which is spastic might occasion an improved state of metabolism in which the tonus ceases to be exaggerated

GILBERT C ANDERSON M D

Kuntz A The Distribution of the Sympathetic Raml to the Brachial Piezus Its Relation to Sympathectomy Affecting the Upper Extrem ity irch Surg 1927 vt 871

Extirpation of the stellate ganglion alone or section of the gray rami connecting it with the hrachial plexus for vasomotor denervation has failed in most cases to eliminate completely the sympathetic nerves

of the upper extremity

The author reports further studies made in an attempt to evaluate this failure. Attention was directed particularly to an inconstant intrathoracic ramus that connects the first and econd thoracic nerves as a possible pathway through which swippa thetic fibers may connect the trunk below the stellate ganglion with the brachial plevus through the first thoracic nerve.

The chief sources of sympathetic fibers to the upper extremity are the middle and stellate ganglia. The former is often absent in which case the stellate ganglion is usually connected by gray ram to all of the nerves from the sixth cervical to the second thoracic and a white ramus from the first to the

stellate ganglion

Frequently an intrathoracic ramus of the second joins the first thoracic nerve. In forty, eight cadavers examined by the author such a ramus was present bilaterally in 44 per cent and unilaterally in 19 per cent. Considerable variation was noted in its size location and connections. In some cases there were branches from it directly to the stellate ganglion. There were always the gray and white rami from the sympathetic ganglion or trunk to the second thoracic nerve.

Microscopic study of this intrathoracic ramus joining the first and econd thoracic nerves showed chiefly small caliber fibers with thin myelin sheath or absence of myelin which are characteristic of sympathetic fibers. Recent studies by various in vestigators on the innervation of the arteries of the extremities in mammals show that sympathetic fibers are carried peripherally in the larger nerve trunh, and join the arteries at intervals along their cour e. Few if any extend peripherally along the walls of the vessel

From these data the author concludes that extrapation of the stellate ganglion alone or section of the grav ram connecting this ganglion with the hrichal plevus is madequate to denervate the blood vessels of sympathetic fihers completely. To insure such denervation it is necessary not only to section the grav ram: connecting the middle and stellate ganglia with the hrachial plevus but also to extripate the stellate ganglion and either cut the sympathetic trunk helow the level of the second thoracc or sever the communicating ram of the trunk with the sec.

ond and all peripheral rams arising between this level and the stellate ganglion. The anatomy of this region is shown in three drawings.

ALBERT S CRAWFORD M D

#### MISCELLANEOUS

Quick D and Cutler M Neurogenic Sarcoma
Ans Surg 927 lxxxvi 810

The tumor commonly designated as fibrosar coma spindle cell sarcoma or fascial sarcoma occurs most frequently in the subcutaneous and intermuscular tissues of the arm leg pophteal space and chest wall. Ewing has called this neoplasm neurogenic sarcoma. As it is comparatively rare the average surgeon does not encounter it with sufficient frequency to be familiar with its true nature. Because of its hengin appearance it is often removed by simple excision. The result is prompt recurrence followed by repeated excisions and recurrences. The condition hecomes progressively more extensive and death often results from pulmonary metastasis.

The authors report is based upon seventy five cases treated in the Memorial Hospital Toronto during the past fifteen years. The tumors are divided into three groups according to their malignancy as judged from their histological structure. The patients ranged in age from six to seventy two years. The authors state that a single injury does not seem to be a cause hut chronic irritation or repeated trauma may be of etiological importance. In the great majority of the eases the tumor occurred in one of the extremities or the chest wall but in some it developed in the neck buttock avilla groin or scalp.

of five patients with a tumor of the upper extremity who were subjected to amputation two are alive after five and eight years respectively and three died of pulmonary metastass soon after the operation. Of nine patients with similar tumors who were treated by radiation or local excision of the growth or both five are well from five to nine years after the operation and three are dead. The three who died developed pulmonary metastases.

Of fifteen patients with a tumor of the thigh threteen are dead. Many of the failures in this group must be attributed to the advanced stage of the disease. Amputation was attempted in one case hut the others were treated by eversion alone or excision followed by the implantation of hare tubes. Inoper able cases were treated mainly by exposure and the insertion of hare tubes but in several instances zinc chloride paste was used alone or combined with radiation.

Of five patients with tumor of the neck, two died two had good palliative results and one is free from disease fifteen months after combined excision and radiation. The two who died had advanced recurrent tumors which were treated hy small doses of external radiation. Two advanced inoperable tumors of the neck are being held in check by high voltage \(^1\) radiation and radium packs. This

treatment was begun two years ago and both of the patients are win e cellent general cond to

Of nine patients tha tumo of the che is all figure and four eleved To of thise hore dead hived for he exert fitter the beginning of the timent ! died f pulmonary meta ta. Of the five ho are also the grot his rested n

three a d ha d supper red in to I ulmonary met at sociarred cet of the e enth fie e \ a e v fefi iter latinhp as oted bit centhe cellulur nature of the tune d their tendency to find may seven them or on past ture of the ne plasm may seven

a a fa ly a c te g le to th treatment anf

In one fthe case we lee tho f the motocill verty of timer the eac very left protection to the

examination showed one to be a very cellular mailg nant rou d and poly hedral cell tumor and the other to be a k mphosarcoma A small dose of radiation such as a si gle sube vthema dose of the \ rays may

th refore be a valuable diag ostic aid

In cases of neu ope ic sarcoma of the extremutes the decism between amputation on the one hand and e ci on a diradiation on the other is at times most difficult. Of ten patients with such timors who were subjected to amputation five die did pulmon ary metastasis and five are vell hereas of fifteen to be ve e treated by local exists on and radiation sein are all eafter from two to nine ye rs a jeght red vil The result of amputation appear to lept dim and on the degree of mal gnancy of the time.

The author conclude that the treatment of choice is present were diation and wide exciton followed by prompt and adequate postone ative adiation

The c elca es and their treatment are reviewed a detail. An analysis of the fishers indicates that may of the mover due to the high malignant nature of the turn is the advanced stage of the condition of nadequacy fithe treatment employed.

The c elca cs and their treatment are reviewed and the stage of the first treatment of the condition of the stage of

## SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Anderson J Surgical Diathermy in Breast Can cer The Application of the Arc Electrode or Cutting Current to the Radical Operation Brit J Surg 19 8 TV 500

In the treatment of cancer of the breast Anderson uses surgical diathermy in the form of the arc electrode The apparatus and the technique are described The small machine ordinarily used for medical diathermy is sufficient. A fine arc appears between the electrode and the skin and the tissue is cleft to a depth varying from a fine line to i cm according to the amount of current used and the tissue resistance. For dissection of the axilla a scalpel is necessary

The author uses the arc electrode also for the removal of various tumors of the skin and mucous membranc Because of the inflammability of its vapor ether cannot be employed in the operating

room

The advantages claimed for the use of the arc electrode are that it seals the lymphatics thereby preventing mechanical dissemination of the cancer cells it gives better hæmostasis with a saving of blood catgut and time it sterilizes the wound it is associated with less pain and shock than other methods it is followed by cleaner and more satis factory healing and it is less and to be followed by recurrence

Histological sections of removed tissues show little alteration of the cell structure adjacent to the line of desiccation NATHAN N CROHN M D

## TRACHEA LUNGS AND PLEURA

Archibald E and Brown A L Cough Its Ac tion on Material in the Trachcobronchial Tract Experimental Study Arcl Strg 19 8 XVI 322

The authors state that the forced expiratory effort of coughing is immediately preceded or followed by a markedly increased inspiration. There fore by the inspiratory rush of air and the expira tory effort coughing may spread material in the bronchi deeper into the pulmonary tree instead of expelling it

In experiments on cats in which iodized oil alone and mixed with sputum and tenacious masses of sputum impregnated with the oil were injected the authors found that in the animals which coughed the oil was carried deeper into the lung tissue and remained much longer than in the animals which did not cough It remained even longer when the trachea was compressed during the cough tenacious masses were carried no further than the large bronchi and were soon expelled

These findings suggest that in certain surgical operations coughing may be more dangerous than beneficial Coughing expels most of the fluid ma terial aspirated into the trachea and larger bronchi but forces some of it into the alveolar spaces

CHESTER L CREAN M D

Infections of the Lymph Nodes of the Lerche W Bronchial Tree ir h Surg 1928 x 1 338

The lymphatics of the lungs are found in the walls of the bronch; along the arteries and veins and in the pleura. The flow of lymph in the lung and the larger part of the pleura is toward the hilum \ \ \taken lves in the connecting vessels between the pleural and deep lymphatics point to the pleura thereby pre venting the passage of an injection mass into the deeper tissues. The lymph from the lungs the bronch, the lower part of the trachea, and the larger part of the pleura is received by the tracheo bronchial nodes

Micro rganisms may be carried to the tracheo bronchial nodes by the lymphatics following their inhalation into the lower respiratory passages or their transportation to the lymphatics by way of the blood stream They have been found in these nodes when there was no other focus of infection in

When microorganisms settle in a lymph node in the lung they may be destroyed in situ or remain latent or they may set up an inflammatory reaction followed by healing with or without calcification or they may lead to suppuration of the node into a bronchus or the parenchyma of the lung with the formation of an abscess

Larticularly in childhood swollen trachcobron chial lymph nodes-tuberculous or non tuberculous -may compress the bronch: In the presence of infection such compression may lead to bron

chiectasis

The bronchopulmonary nodes may also be potent factors in the causation of bronchiectasis in chil dren. When these nodes are enlarged and inflamed and there is an associated periadenitis with odema the bronch may be compres ed directly by the nodes or by the fibrous tissue resulting from the acute periadenitis Illustrative cases are reported

For advanced cases of abscess of the tracheobron chial spaces the author advises puncture through the bronchoscope CHESTER L CREAN M D

Pickhardt O C Unresolved Pneumonia Surg cal Analysis 1rel S rg 1928 xv1 192

In an analysis of fifty two cases referred for ray examination as unresolved pneumonia the author found that only six were correctly diag nosed He states that as a rule the diagnosis of unresolved pneumonia is an admission of failure to determine the true nature of the lesson. He has tabulated the various conditions to v bich this term was applied in the eases revieved at all includes in his article roentgenograms of true cases of are solved pneumonia. He calls attention to the per bronchial thickening which is the ed esult in typical cases. He so enclusions are as follows.

r T ue primary unresolved pneumonia is a ra e

2 In the rare positive case a d fi tel calized peribro ch al infilt ation visible in the roentgeno gram develops later

3 Appro imately 36 5 per cent of pulmonary conditions diagnosed as unresolved pneumonia are frankly surgical conditions

4 The thoracic urgeon should be consulted more freque tly whenever pneumonia does not resolve promptly and properly

RAPHBBIT MD

C owe S J and Sca ff J E Expe ment 1 Ab ces of the Lung in the Dog 1 h S g 9 8

All n D S Th Etiology of Abscess of the Lung E p riment I nd Cl nical Studies 1 h S g 9 8 79

CROWE and SCARFF stat that n the bass of 3 5 o tonsilicetomies perf irmed at the Johns H p has Hosp tal B lt me e th precautions to p vent the aspiration of infect ous material and thout a single postoperative absess of the l g they had ecome to the conclusion that pot per tive pul monary abscess is due to aspiration rath than to the line at on of 1 fe ted embol

The p ecaut ons t ken in the cases reveved v re

the following

1 Morphine and atrop ne we e given before the operation

2 The anæsthesia was induced by a trained anæsth tist

3 Throughout the operation the patients he d was kept at l ast 15 in low r than his f t
4 The allowing r fle a mai tai d during

the pe od of anæsthesia
5 The mucus and blood re r m ved fr m the

pharynt by caref 1 s ction
6 All bleeding v ssels w re carefully ligated

In espe im nt on dogs in which pl dg is 1 to naturated with fresh szapings from py ribua cavities f om cli teal cases were introd c d into the an bronchus of the lobe through a b onchoscop Crowe and Scarff vere able top oduce lung absces es in e ght i stances. The biscesses ere confined to a single lobe and ere of a soc ted with gent I pneumonitis. They we e char te zed by nec os a d eavity for m to

In to other dogs p Imonary absc ss s r sult d from a s usits with a constant foul sm Iling discharge f m the nose which was produced by placing cotton pl dgets contiminated with pyo rboca sc ap

ings into the frontal in s

In the cases of fifty dogs in which pledgets of cot ton infected with cultures of pneumococet staphylo cocct streptoocet colon bardl and various other bacteria instead of pyorrhea scrapings vere introduced nto the main bro ch the results were negative or a diffuse pneumonitis developed.

ALLEN d scusses the prod et on of pulmonary ab scess by way of the air pass ges (asp ratio ) and by

way of th blood stream (emboli)

In periments to produce abscesses of the lung by aspir t on hongert dipus obtained from cases of honger non tuberculous abscess of the lung into the

tra h æ of fifteen rats. None of the an mals de loped c ther a pulmo ary abscess or pneumo i Bel v ng that the bacte a might have been killed by hilling h then injected arm pus immed ately coughed up int the trachese of e ghteen I three rabbit Thee of the dogs but none aft rit f the rabbits de cl ped abscesses of the lung. The ses c mult ple but so small as to be se n m c oscopie e aminat on They resembled the cally absect of the lung in man \s in clinical ca e ther as a lefin te latent p riod bet een the aspiration of the infected material a d the developm nt f the symptoms It as noted that the ab se sees developed in p riio s of the lung farthest f om the main bro by that is in places here pus vas most lik ly to become trapped

In the case of seven dog plugs of 1 fe ted tonsil ti e or b f e blov n into the bronchi by means of omp cs d ar No lung ab cess devel ped and ne opsy showed that the plug had been expelled

In three dogs pu ulent material vas introduced nto a lobe of th lug and the main bronchu then light d T od g dev lop d multiple absesse and on pneum in Four control dogs in v hich the bron bus as a lighted without the previous int odue tin f pu ulent material did not have these complations.

I the experiments mill t seds were into duced nto the brochi through the bronchoscope that the barbs point is towerd the trachea but even these foreign bods swere coughed up

Attempts to produce lung absces es in dogs by the liberat on of septic mboli a cording to the technique

of Cutler ga e positi er sults

In conclusion the author says My c vorkers ad I do not wish to doubt the possibility that ab scesses of the lung may b d to the lodgment of infect us sembol in the radicals of the pl monary a te s We have produc d such absces es exp in the We have hove er hoped to point o't and to pro experimentally the the route of entry of inf cito s mate 1 in the 1 g may be through the a passages A ingle infection of the bundle of the passages of the lung first of the bundle of the semble of the lung the possibility of the lung first point of the lung they be cleaned as the board of the lung they be cleaned under the lung first point of the lung they could be under the lung first point of the lung first per cipal required unit in the rases that the infect is material is not alloed to exapt from the lung.

RALPH B BETTWA. M D

kernan J D Abscess of the Lung Relieved by Bronchoscopy Report of Cases trch Sug 1028 XVI 215

In a series of 103 ca es of abscess of the lung re viewed by Kernan the common etiological factors included tonsillectomy pneumonia and operations other than tonsillectomy In 20 cases the cause was not apparent Cases in which foreign bodies were responsible were not included unless the foreign body had been present for a long period of years

Of the 103 patients 68 were treated by bronchos Usually at least 3 bronchoscopies were re quired in each case as were generally necessary to accustom the patient to the instrument Of the 68 patients so treated 31 were relieved of the cough expectoration and fever and were considered cured but 2 of these died later from another cause Fifteen others were benefited 9 could not be traced 9 are dead and 4 are still under treatment. Of 8 patients who were treated surgically 3 were cured 2 died and 3 could not be traced

In 27 of the cases treated by bronchoscopy the absces followed tonsillectomy In 15 of these a cure was obtained. In 9 of the 15 which were cured the recovery followed one or two bronchoscopies In the 27 cases excluding those subsequently operated upon there were 3 deaths 1 of which was the result of embolism and directly attributable to the treatment

Pulmonary ab cesses following tonsillectomy respond best to bronchoscopy The treatment is most successful if it is begun early while the abscess wall is elastic and able to contract but is always indicated however unfavorable the \ ray appearance since gratifying results occasionally follow even in cases with an apparently poor prognosis

The author discusses seven cases of pulmonary abscess following tonsillectoms and one case of ab scess developing years after exposure to gas during the war which was clinically cured after two bron choscopies in spite of the long duration of the con dition He reports also an abscess of six months duration which developed after pneumonia and took the form of a mass of scar tissue with fistulous tracts In this case a cure was effected after months of bron choscopic treatment BURTON CLARK IR M D

Eggers C and Kernan J D Acute Pulmonary Suppuration The Selective Action of Artificial Pneumothorax in the Treatment of This Disease 1rcl Sug 19 8 xx1 270

Artificial pneumothorax has received scant atten tion in the treatment of acute non tuberculous intra pulmonary suppuration and opinions as to its value vary greatly. The authors report a case in which it gave striking results The patient was a six year old girl who developed an abscess of the lower lobe of the right lung a few days after a tonsillectomy per formed under general anæsthesia seven weeks before her admission to the hospital At the time of her admission she was thin anamic and feverish and coughing up quantities of pus

In spite of two weeks of bronchoscopic treatment sbe continued to fail At the end of that time a rib was resected under local anæsthesia and air admitted to the pleural cavity through punctures made in an meffectual attempt to strike pus Following this procedure roentgenograms showed collapse of the lung This collapse was limited chiefly to the lower lobe indicating apparently that the upper pleural cavity was protected by adhesions

Immediately after the operation the patient began to improve There was a rapid diminution of the cough and expectoration with an associated gain in weight After two weeks the temperature remained normal A month later bronchoscopy and \ ray examination demonstrated a small contracted lower lobe with dilated bronch: The other lobes had ex panded to fill the chest completely. The patient has remained well

Pneumothorax permits collapse of the lung with obliteration of the suppurative focus. In the contracted lung circulation is diminished and fibrosis sets in tending to maintain collapse and favor healing The two important factors for the success of the procedure seem to be a free bronchial outlet and a non adherent lung Therefore the treatment must be given early Burton Clark Jr. M.D.

Whittemore W and Balboni G M Non Tuber culous Bronchopulmonary Suppurative Le sions Results of Treatment by Artificial Pneumothorax A ch Surg 1928 xv1 228

The authors review the end results of artificial pneumothorax in 245 cases of non-tuberculous bronchopulmonary suppurative lesions-222 cases reported in the literature during the last twenty four years and 23 cases of their own

In the authors series there were 18 cases of lung abscess and 5 of bronchiectasis. Of the patients with lung abscess 2 were cured and 2 were benefited temporarily. One of the latter died within a year from bronchopneumonia Partial pneumothorax brought about improvement of all symptoms but fifteen months after the suspension of the treatment the patient died of embolism. There were three fatal hæmorrhages during the treatment in these cases the pneumothorax was incomplete because of adhesions. In 2 cases the treatment caused no improvement and in 3 the pneumothorax was unsatisfactor. Five patients developed empyema and were operated upon Three of these were cured I is still under treatment and I died

Of the 5 cases of bronchiectasis in the authors series pneumothorax was satisfactory in 3 In 1 of these 3 it resulted in cure. In the 2 others it caused improvement but i of the patients died later following an operation for empyema. In the authors opinion artificial pneumothorax offers small chance of cure in bronchiectasis

The cases reported in the literature included 120

of abscess of the lung and 93 of bronchiectasi Of the 129 cases of abscess of the lung 68 were cured Twelve of the patients were not benefited and 18 d cd Of 1 p tients who develop d em prema 6 were cured by operation

Because of the low incidence of cure in the r o cases the la ge numbe of cu es eported in the literature is regarded by the author as extr rdi nary but thy tate that if the statistics they h e compled can be cled upon thy beb ve that n spit of their own experience artificial pneum thera hould b u d more frequently in the treatment f lung absce

cport d in th Of the 93 cases of bron heet literatur a cure vas obtain d n 14 and mp o ment in 44 S on patients died of them ft r thoracoplasty In only 3 ca es was there a ruptu into the ple ral cavity. In recases pneumotho ax could not be created. In the cases in which a om pl te collan e c uld be b ought ab ut the tr tm t was continued for pe od v yng fom fi m nth to 1 years In mo t of the cases n hich a r as obtai ed the disea e had been pre ent f than a ye

The autho's do not h've mu h'c nfid nce n fic al pn umothora n bron h ctas s but admit that n ealy c es without adh sions an occ may be effe ted by the treatment and thet ca sio ally a patient may be kept almost f f m sympt ms as long as complete c llapse can be ma n ta ed

During teatment by artifical pneumotho ax more or le fluid ill be formed at one tim or anoth r whether the ase is tub reulous o n n tuberculous

The cas s of abscess n v hich the chance fo a cu e m a tificial pneumotho v b st ar those h h th ab 8 is c ntral and communi at 8 1 th a b onchu th tr atment s establ hed in th fir t four month f the dis as good coll pse i oht in d and the tre tm nt a be maintained fo m ths B N LLARS JR M D

Lil enthal II Non Tub culous Pulmon y Sup purat n A C mp on of Ope tons nd
Their Results 1 / S g 0 8 0

The author fi st e e s o5 case of pulm na v suppuration f ed to him for operation sh b lobectomy a ethe pe fo med nor c nt mpl ted The c nd t n 1 cl ded most of the f ms of surgical suppu ati e di case of the lu g th the of tub cul sis actinomic d c es of ci lian traumat c urge cau e f the condition a pneum a nelu ling influen a t enty nine case a dt nsillectomy n ty enty one ca es Other cau ncluded tooth tract on nasal operat ns nd b on hiecta i tventy nine case the cau e of the cond tion u kno n

There y r fo ty se en death D th was due n n ne case t embol sm (in thre t embl m and in x t bacterial embol m) ine cases t hæmo hage in one case t mediastinit n t ca c to phlegmon of the wall of the cbe t l llo 1 g d g ostic pu cture of n ab ces

to contralateral pulmonary condit ins in two cases one case to nephritis and in sixteen ca es to a septic condition v hich had been present befo e th operation

Llenth l tat that air emboli m is le s l kel o cur i the patient's head is lo c than the th 1 Hæmor bage is to be feared ch fly in the pot pet p od Dagnostic pu ctures of the lu g e d ngerou in cases of absce s and should n ver be d e e cept as p el minary to mmediate ne atı Att ton is called to the fact that in th e n which the cautery was u ed in the lu g th reveretwo death from hæmorrhage v here a Cahmh porte I many excellent res lts from tbap cedu

The relation of age to the mortality a mp tant th c ses of patients under fits years of age the s 4 pe cent he eas in those over

hit var of ge to 63 per cent

I the author's opinion artific al pneumothorax had its p neipal application in cases of lung absces di cha g g t a bronchus and n the ea ly st ges before the ab ccs all has become rigid Theracoplasty i dicated unilateral cales hen the di ea e is of long durat o p ic pal c u e of failu e of thi procedure are t rfe ence with dr nage of the ca ities due to the collap e a d fa lure of the ca ities to collapse beca e of r gid ty of the r lls Ext apleu al p eumoly is a aluable in cert in cases of apical a t s in which the e t f the lung and the ppo te lung a e clear Intrapl u al pneumolys a successful; t o ca es in whi hit was performed b ca se n othe p oc d e seemed pos ble In caes Ich ne den te bace a ira nge haoften p o ed cc ful Br nchostomy i freque tly Ill well by surpr gly g od 1mme late esults h t v be follo (d by lowly spread g g ng e e th lat hæmor hag I neumo otomy i of val e

es of indurated lu g th m ute multiple Vithough the mortality the case re e ed as high t a much lover than that of cae which o h pall at e measur sar sed

I co lus on the auth re ll atte tion to a group s n hi h lobect my was p formed. The lyn m l both a t fu ction a d b dy symme th could have be e pected fter any other Lle th I beli es th tin su table cases lbct my the t t on of ch ce

M D R B B TT

A hib ld E Th Surgical Teatment f P l mon ry Tubercul sis C d M

A h bald a t cle de l nti ely th vtr pl ural th copl to fo pulm ary tub r los the i di at sl the p rati n a d the path logy of the Path logical 1 ific t n d v de pul mo ary tub re loss t t types—the e udati e nd the p odu t Tb exudative at ays m re or less acute process with a resulting condition simi lar to lobular or lobar pneumonia. In this type resorption may be almost complete in time but cascation cavitation and fatal progression may occur However if the resistance is strong the acute form with cavity formation may turn into the

chronic productive type

The productive form suggests a high resistance It leads to the formation of typical tubercles with out a fluid exudate Cavities may occur but coin cident with their formation there is the production of fibrous tissue with a tendency toward healing The exudative form usually represents an acute process with massive or virulent infection and poor resistance. The productive type is thought to be the result of infection by a few bacilli in the presence of high resistance

A distinction between these two types may be made in part from the clinical picture and in part and more accurately from the ' ray picture Both forms may be pre ent simultaneously or one form

may change to the other

The prognosis depends upon the resistance The exudative form represents activity and a poor de fense while the productive form indicates chronicity and a good defense Surgery is to be considered only if there is good resistance evidenced by the clinical course of the condition the constitutional symp toms and the findings of the physical and \ ray examinations

The type of case most favorable for operation is the good chronic case In incipient and far ad vanced cases surgery is not to be considered. The other lung must be sufficiently sound to carry on respiration alone There must be signs of a uni laterally contracted chest a falling in of rib spaces and subclavicular fossæ a pulling up of the dia phragm a pulling of the trachea heart and medi astinum toward the affected side and a narrowing of the intercostal spaces. In this type of case con traction has already occurred as far as possible and further collapse requires the partial removal of ribs When collapse and healing are complete only a small solid fibrous lung remains. This result is brought about after operation because the formation of fibrous tissue is stimulated lymph flow and toxic absorption are retarded and the blood circulation is hindered

In doubtful cases it is better to try lesser proce dures such as pneumothorax or phrenicotomy If the patient responds well to one of these measures he may later be suitable for thoracoplasty. The author believes that acute cases should never be

operated upon

The article contains three tables covering 140 cases In 117 thoracoplasty was performed mortality within the first two months after the operation was 7.7 per cent and the mortality from later progress of the disease 193 per cent resulted in 33 per cent of the case and marked improvement in 32 per cent

FRANK B BERRY M D

The Action of Phrenicectomy on Tuber culous I esions of the Upper Lobe (Action de la phrenice torne sur des lésions tuberculeuses du lobe sup neur) Pull et viem Soc méd d hop de Par 1027 xlm 1636

Tapie reports two cases in which phrenicectomy appeared to interrupt the evolution of tuberculous lesions of the upper lobe. He does not believe the result can be considered a coincidence as both were cases of tuberculosis with cavities showing a ten dency to extend and the patients were obliged to work for their hving and hence were unable to take the dict and rest treatment

After failure of pneumothorax a thoracectomy seemed indicated The improvement obtained with phrenicectomy was quick and lasting. Two years later one of the patients had ceased coughing and the other was able to support herself and child

In the author's opinion thoracoplasty should be reserved for cases in which the symptoms are immediately threatening. Phrenicectomy makes it possible to judge the function of the other lung and to perform costal resection later with a greater sense of security. Sometimes as in the cases reported the improvement following phrenicectomy is so great that no further intervention is necessary

The favorable action of phreniccetomy on apical lesions cannot be entirely explained by the rise of the diaphragm The operation acts also by pro voking a retractile pulmonary sclerosis. While the sclerotic process had already begun in Tapie's cases before the treatment its increa e after the operation suggested that the phrenicictomy favored the development of new fibrous networks Excresis of the phrenic nerve therefore finds its best indica tions in subacute forms of fibroca eous tuberculosis especially those with a spontaneous tendency toward retractile sclerosis in which pneumothorax is imposible or useless because of extensive pleural adhesions ANNA L PACE

kliklin B R and Piterson R The Roentgeno logical Manifestations of Primary Carcinoma of the Lung 1 J Roes tgenol 1928 viv 20

The authors state that previous reports on pul monary carcinoma have dealt largely with the late stages of the disease complicated by massive tumor infection or the presence of fluid. The early cases full into two groups the bronchial (which are not discussed here) and parenchyma. Larenchymal car cinoma is usually adenocarcinoma and tends to run a rapid and at first symptomicss course

Three roentgenological types are described—the nodular the lobar and the infiltrating The nodular type which is the most common consists of an irregularly rounded infiltrating nodule lying com pletely in the pulmonary field and usually not in volving the peripher. The lobar type is of homo geneous density occupies an anatomical lobe and shows an infiltrating edge. In the infiltrating type there is increased density of the bronchial tree radiating from the hilum

The conditions to be considered in the differintial diagnosis include metastatic tumor various nilliammatory processes tuberculous mediastinal tumor and venous congestion

Rouvee II Tle Connet ons betteen the Pleu and tle Cervical and Axilla y Gtands (S 1 t pl t les g gt lymph t q es t pl l t pl t d p tl

In a tudy of f tw sp cm ns obtained from 1 fants d v ung child en Ro e mie t d the plu tise of both s desins ha v that in sp t of the diff of the olor defluid the in a 1 th r lymphatic e el er derd lict fm hothr The ijet n sh ed that the diff ent gme to of the pa setal pleura the med at al pl u a ( c pt pe hap th zon tuching o th plu al zo ) nd th d phrigmatic plua ha no dr tenn to er scal or a slla v gland Only the plu al do se and a part f th o tal pl ran on t d with the gland by the lymphati tat rea s of the r gland l on th t a as may b I vid d nto thr lymphati g on

a as may be toted ento the Ismphate gon. The fit of the latter, the pleural dome the the first o tal a he is he had a the the first o tal a he is he had a the the first o tal a he region the Ismphate a to the tar set the is featured from the the the set of the the all a gland. The sunt is not the the all a gland. The sunt is not the the all a gland. The sunt is not the the all a gland. The sunt is not the the all a gland the sunt is not the the all a gland. The sunt is not the the all a gland to the sunt is the sunt is not the sunt is the sunt is the sunt is not the sunt is t

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Lock ood A L Tte Empyem P blem 4 J

Ep ma must lass b uspect d when a feb il o ltto is mantai ed l ge the nu ul follo ingpeum ma typh id le sca ket feve i fluen a t llt aftra sugcal p elure ope ations o the ea dthroat and thee tr t n ft eth

In uch ca es the h t sh uld be c efully e am med a d tereo cop roentge g am should be

made early Aspiration should not be resorted to unle sit is imposable to obtain roentgenograms and then only if a definite area of fullness is found

Eme ge ev operations are not justifiable unless the pres ure f om the collection 1 so great that emba rassed or circulation is impeded respiratio Rapid removal f the fluid favors a fatal result. If a p ration is nece sa y it should be done only by the method of air replacement Aspiration of an acute empyema should not be carelessly under E cent tuberculous pleu 1sy in hich the flu l is st v colo ed the vithdrawal into the veinge of a clear fluid that flows feely indicates that the aspi t on has been performed too early It i up g and nexplicable hos quickly even farl thick fluid can be ab orbed within the pleural ca sty. It hould be borne in mind that the fluid i to tap otecti c mechanism to spli t the lung and st bil e th med astinum and that death in the cute stage of the di ease due n t to the absorp to telf but to too early a terference the the flud collaps of the remaining air bearing tiss e a d n uffice to ygenation incide tal to the re ulting p eumotho av

Bact r logical exam n tions of the fluid made by Lord r ealed pneumococci in 39 4 per eent of the cas treptoc cci in 0 4 per cent staphylococci in 36 per ce t mi ell neous bacteria in 16 per cent

a d te 1 fluid n 18 2 per cent
In Lo k toods cases of acute empyems as
pratto s do n the e rly stage of the d sea:
ith a repla ement if the fluid stock of the first
not c use impro eme t elosed drainage : estab
ished by the cathete and cannula method if the
till no impro ement d at a age is estable hed by

inc nth ugh a terspace and later if nece sary a b re cted ar being taken that the penng is t the l est po tion of the cavity. Forced feeding and blood transfusin are used as support et tme t

In ch n c emp ema rad cal operations should be dec ded upon o ly afte a thorough tral of the Carel D inte tment In all cases with cavit es h ing capa to of more than 3 oz Lockwood endea o to e pand the l g to the vall of the chest ratl r than to ollapse the ll of the chest to the lu g Fo most c vites with c pac ty of less than 3 oz esp cially those pe ipherally s tuated he pref s clo re by muscle o ski flap limited re ectio of the wall r ome simil r simple method Bef e any exte si e operati e intervention i u I t ken the ca ty should be thoroughly 1 gated with surgical solut n of chl r ated soda u til the lu g no longer e pa d d the d charg is a nea ly ste ile as possible. If necessary deco t cat on may then be do e with partial resectio of the bony all f the chest d th ckened p tetal pleura c ve 1 5 the c v tv Fo the mo t complete result the nc n must be hermetically scaled t e tablish a gati e pressure a d maintain the re expanded lung e pan on Mult pl m llope at o s afel carried ut 1 d cate sound su g cal judgment

CIEST R L C E V M D

Farr C E and Levine M I Empyema in Chil dren A Preliminary Report Surg Gynec & Obst 1928 xlv1 9

The authors review 371 cases of empyema in children with regard to the age of the patient the year in which the condition developed and the organism responsible for the infection Empyema is a secondary process In 92 per cent of the cases

reviewed it followed pneumonia

The incidence of emprema probably bears a relationship to the prevalence of pneumonia and the virulence of the organism. The mortality is very high in infancy and then drops rapidly until the age of seven years. Age seems to be the chief factor in the prognosis but the type of the infection the year in which it develops and the virulence of the organism are also of great importance.

The method of treatment used—whether it is intercostal incision rib resection open drainage closed drainage the use of Dakin's solution or simple drainage—seems to have little influence on the prognosis. In choosing the time for operation the surgeon should be guided by the nature of the

pus and the patient s condition

Recurrences seldom result if free drainage is

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Death from empyema in the cases of children is almost always due to general debility brought on by the previous illness or is the result of existing complications rather than to the empyema itself J FRVA DOUGHTY WID

# Janes R Tuberculous Empyema Canadian M

Janes states that the prognosis of tuberculous emprema is always grave and the postoperative mortality high From the standpoint of treatment the cases fall into three groups (1) those of empyema in a closed cavity without secondary infection (2) those of empyema in a closed cavity with secondary infection and (3) those complicated by a bronchial fistula a chest wall sinus or hoth

Sterile purulent exudates in a closed cavity should he treated as a pleural effusion if the lung expands when the fluid is withdrawo. When the lung is fixed in collapse thoracoplasty should he

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Repeated aspirations may lead to secondary infections. Open dramage should never be estah lished in sterile eases. If a bronchial fistula or empyema necessitatis develops thoracoplasty should he done at once before the occurrence of secondary infection.

When secondary infection is already present the problem is always extremely difficult. Lificient drainings should be established preferably by the drainings should be established preferably by should be undertaken. Dakins solution is contra indicated as it is too irritating. In the next step of the treat ment a multiple stage complete extrapleural thora coplasty must be performed. In this way a large cavity may be converted into a small shallow ooe

with only a scanty discharge and the patient re stored to comparatively good health. In favorable cases the shallow cavity may he later unroofed packed with iodoform gauze and treated with quartz light and the resulting defect closed with pedicled skin graft. Frank B Berry MD

# ŒSOPHAGUS AND MEDIASTINUM

Smith L A Diverticula of the Thoracic Œsoph agus Am J Ro 1 tgenol 10 8 xix 2

Prior to the use of the \ ray diverticula of the thoracte esophagus were found only at autopsy Carman collected fourteen cases seen in the period from 1892 to 1910 in all except one of which the diagnosis was made at \ ray examination. In the period between 1919 and 1926 the nuthor collected twenty seven cases and in this article he adds nine new ones. In three of the latter the sacculations were multiple

These cases appear to indicate that the condition is probably rather frequent but is often not diag nosed because of the absence of symptoms. In only three of the cases reported by Smith were there any symptoms suggesting a pathological condition in the coophagus and in only one was there any evidence whatever of cardiospasm which has been considered an etiological factor.

Smith reports also two cases of non traumutic para cosphageal hernia of the stomach associated with cosphageal diverticula

CHARLES H HEACOCK M D

Mosher H P Findings with the Barium Bougie in Cardiospasm inn Otol Rh of & L ryngol 1927 v vil 1124

Mosher is inclined to the opinion that cardio spasm is a stricture which is hardly more than an inflammatory gluing of the deep longitudinal folds of the lower part of the œsophagus favored by accentuation of the normal twist of the tube in For the study of this condition he has devised a harium hougie a ruhher balloon filled with harium the lower end of which has a metal cap about a centimeter wide. This hougie is introduced into the cesophagus by meaos of a whale bone staff and the cesophagus then examined with the roentgen ray Retching occurs only when the bougie rests in the lower assophagus it does not occur when half of the bag is in the stomach and the other half in the asophagus the correct position wheo the \ray examination is made. More in formation can be obtained by this means than by direct observation through the esophagoscope The author says For years I have held that an examination at the lower end of the esophagus under local an esthe 12 and with small tubes amount ed to little or nothing

Six cases in which the harium bougie was used are reported. All showe I a tubular narrowing of the terminal portion of the exsophagus. The transverse and anteropo terior diameters of the narrowing were

The conditions to be considered in the differential diagnosis includ metastatic tumor various i flammatory process tube culo is m d ast nal tumor and v no s ongest on

Rou fè e H Tl e C nn ct ons het en the Heura and ti e Cerc e l nd Ax lia y Glands (5 le t l pl ti g gl lwmpha tq c t l l l l g gl lwmpha o 7

In a study f fort sp mens obta elf em in fa ts and young Ilden Ru e nj t d the pleural t sue of h th sid s in such a v th t n spit of the diffu n f the color diffud the in jeted zon dithir lymphati el ver dered ditnt from hoth The lictors show d that th dff nt s gm nts of the pa tal pleura the m dat nal plu ( ept je bap th zone touch g th plu al ) nd the d phragmat pleura h n di ct c nn ct th glad Only the pleral the cerv al or a ll dom a da part f the tal pl ura com t d with the gla d by the lymphatic tract rason of the gladul c to the tvo a eas may be li id d to the lymphat 13 m The h t of th 1 tt 1 the plur ! dom handth t tit otal pe the fir t costal ecluding the tent of the elin the rgin the Imphataetrite of the fa claveular gl d a d cond is of th glands Thounit on rtocll t h h hangga dih ip rificofih tho avrah the int lo upper mag of the fit rihithe immedate neighborh de f the fraclasula l p artery One or mo e f the dir the form the pleu to th corr p lng gla 1

The sec nd lymphat recon to df m h low the fit rib to nd ludig the fourth b It ante for a d potr thint e alm t m rg d the fibre that the three that the tender that the transfer that the transf

the wall and ea h the ill ry gland

In the drigon the lymbal to no one ctions that have larged the bleed by sme that the pleu of ct de the thaull a glands by no no da a tome so that at he spectron primath that the compaluate of the profit pr

L k od A L Tl Empy ma Poblem 1 /

Emprema mut al vs be u pected when a febrile ond tion manta need lo ger th n u ual fillo ing pri um typloid fer reca let fee nfluenza t slliti after a su g cal p ocedure prations on the no e and throat a dithee t ction of teeth

In uch case the ch t should be c efully e am ined and stereo copic entge grants should be

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Bact rologic lexam tons of the flud made by L dre ealed peumococci in 394 per cent of the castreptococci in 04 per cent staphylococci in 36 per cent mic llaneou bacteria in 16 per cent

a d'ste le flut l 18 2 pe cent

In Lock o ds case of acute empyema is pat is a de in the arily stage of the die ac Mharrepl ement (the fluid the k. If thi doss not caue impro ement closed drain go is the lish lby the atheterand coulamethod If there is till no improvement anage is estable hed by a conditiough an inte space and later in ressary arib received care be gtaken that the open at the loss thorism of the east; Foreed fieding is d blood transfusion are used as supportive te etiment.

I chook emprema radical ope ations should be lei upon only after a tho ough trial of the Ca el Dak n treatment. In all ca es i the atter having a capacity from cithan 30.2 Lockwood en 1 a o s to e pand the lung to the all of the chest to the 1 g. Fo most cavt es i i th a capacity from collapse the wall of the chest to the 1 g. Fo most cavt es i i th a cap city of less than 3 z. especially those periphe ally stuated he I fersel ure by mu cle or skin flap I m ted! rect on of the vall.

Before any ette 1 e op rati e interention is und rial, the cavity bould be thoroughly r gated with surgical s lut of chlori ated sold until the lung no longer eyad and the dicharge 1 us e rl sie le as possible. If necessay decot cation may the be done with partial resect on of the bony. Il f the che t and thicken d panetal pleura coverins, the catify. For them st complete result the cission must be he met cally sealed to e tablest a neg t ve pe ure and maintain the responded lung! upaniso. Multiple small perat ons soll lung! upaniso. Multiple small perat ons soll carried out 1 d cate sou d ug cal judgm nt.

CH STE L CRE N M D

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## **CESOPHAGUS AND MEDIASTINUM**

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CHARLES H HEACOCK M D

# Mosher Il P Findings with the Barlum Bougle in Cardiospasm 1:1 Otol Rhinol & Laryngol rost text ir 4

Mosher is inclined to the opinion that cardio spasm is a stricture which is hardly more than an inflammatory gluing of the deep longitudinal folds of the lower part of the esophagus favored by accentuation of the normal twist of the tube in this locality For the study of this condition he has devised a barium bougie a rubber halloon filled with harium the lower end of which has a metal cap about a centimeter wide. This bougie is introduced into the asophagus by means of a whale bone staff and the examined with the roentgen ray Retching occurs only when the hougie rests in the lower ecophagus it does not occur when half of the hag is in the stomach and the other half in the esophagus the correct position when the \ ray examination is made. More in examination at the lower end of the œsophagus under local anaesthesia and with small tubes amount ed to little or nothing

Six cases in which the harium hougie was used are reported All showed a tubular narrowing of the terminal portion of the esophagus The transverse and anteroposterior diameters of the narrowing were

practically the same in a given case. The diameter of the resonhagus vas re luced to bet ern a fourth

an I three fourths of the normal

eas ly be converte i int at st

Mosher lelie es that the na o me lue t a fibros s of the mucou memb ane an librou livers of the comphanis. He ame to the orchisio hen he note la ve f peri tal sin the trict ed ar a during the roentgen e aminati n. He t tes that su havae ould nt hae occurel if the muscular lave had be in ol ed t ) gre t extent. He ttribute the fib o 1 to a previou the lo er part f th th av or the upper part of the abdomen I che te le I to the asoph

agus by c t nuity The barium b g sho als hethe the lo er 1 of the asopl gu is m ble o fixed Whe the lung tips all and e pa d un l normal cond t ons renlof the resingu if celto ad l for a lf m the midbre of the bod in and the o mal g f th pat f the phagus to a d the right i traighte d out A c I glv there I a o to t m eme t of the lo er end of the ces th gu -a duble m ton hich may

The treatment of cardio pasm is dilatation. The b rium b uge has proved of di tinct value in re he in the symptoms but as it i capable of del yer ing nly ab ut 5 lb of up and p essure the use of the I lu ame hydro tatic bag may be found neces

It h lo g bee known that when the esophagus I tlle I ith b sum up to certain po nt-generally to th le el f the a ch of the aorta-it vill d'late t If an ther p f that the obstruct on at the relati elv si ght When pat ents term l porti

th cards sp sm fi t present themselve for examin t the esophagus 1 f u d to be full of fluid Sometime the cas hubble of the stomach

vill p the

Ill p the phagus f om belo
Rec nily the author began to u e a Seidltz po let t mpt th | arium filled cesophagus a d found t f cons I rable aid. The gas generated In te I the ce phagus an I makes its outlesta d ut m re cl a ly bes de hurrying the bar um i to the tomach In adlt n it produces a lar e gas bullle the tom ch against h ch the lover e d f the ba ium fill i r phagus stand out very

ALT NO

# SURGERY OF THE ABDOMEN

## ABDOMINAL WALL AND PERITONEUM

Fairbairn J S and Slms T H Pseudomyxoma Peritonei Associated with Ruptured Ovarin Cyst and Appendicular Disease Proc Roy Soc Med Lond 19 8 xm 372

Faithurn and Sims report a case of pseudo my yoma peritone occurring in a nulliparous mar tied woman forty seven years of age. The symp toms were those of mild intestinal obstruction and dyspinex and prilipation on exertion. On examination the patient was found to be emaciated and anamic. The abdomen was distincted and showed enlarged veins. The liver duliness was displaced enlarged veins. The liver duliness was displaced enlarged veins. The liver duliness was displaced enlarged veins. The liver dulines was no because the continuous material excuated no fluid but a thick gelatinous material exuded following withdrawal of the trocar On bimanul examination no swelling was found in the pelvis. A tap on the abdomen communicated adistinct impulse to the fingers in the vagina

Laparotom was followed by the extrusion of a large amount of gelatinous fluid. In the right over an intact cyst was found above and a rup tured cyst below. Both were ext ed and appender tomy was done. The appendry was coiled up in such a manner as to resemble a snail s shell. It was firm uniformly covered by gelatinous material and markedly congested. The peritoneum was generilly injected and the omentum thickened and covered by adherent masses of the gelatinous material that could not be entirely removed.

The unruptured cyst was a dermoid containing sebaceous material and hair. The ruptured cyst presented the characteristic features of an ovarian estadenoma. Histological examination showed the usual high evhindrical epithclium with basil nuclei and clear cell protoplasm but with in unusual number of clear droplets in the cells.

The appendix showed evidence of chronic inflammatory changes. The 13 mphoid tissue had largely disappeared. The cells of the mucosa were in a state of active secretion being swollen clear and in places tufted. The lumen was occupied by a central core of coagulated material undergoing organization with masses of mucus and enmeshed within it blood cell and detached portions of glandular epithelium. The core contained also connective tissue cells with well formed blood vessels. These vessels showed that the core was attached to and vascularized from the wall of the appendix. The epithelial covering of this core was similar to the cylindrical epithelium of the ovarian existens.

While no conclusion is drawn as to the relation between the conditions in the appendix and overs the authors cite the possibility that the enlarge ment of the appendix was due to the implantation of active tumor cells from the overy

MANUEL E LICHTENSTEIN M D

Waugh G E Congenital Malformations of the Mesentery 19 8 v 438

Congenital malformations of the mesentery are a definite morbid entity of a chronic type which may be recognized before operation by careful clinical investigation

The syndromes to which they give rise cannot be explained by any well-known abdominal surgical disease nor by any purely functional disability which may be included under the term indigestion

The most important physical sign is emptiness of the right iliac fossa associate I sometimes with asymmetrical enlargement of the abdomin on the left side. These signs are due to the fact that the entire segment of the embryonic mid gut was in volved in failure of rotation and fivation after reduction from the umblical sac

Roentgen investigation will prove more helpful in confirming the diagnosis when as a route procedure barum is given by mouth until the shadow is seen in the small intestine and a barum enema then given so that a complete picture of the entire intestinal tract is obtained.

Operative treatment may effect a cure or may reveal a pathological condition for which treatment may be given

HIMARD A MCKNICHT MD

MacAuley C Torsion of the Great Omentum A Note on Two Cases Brit J S rg 9 8 x 387

In the first of the author's two cases of torsion of the great omentum the pre-operative diagnosis was acute appendicuiss and in the second appendicular abscess. In both cases the right portion of the omentum was involved and was adherent to the anterior abdominal will. Characteristic of the condition was the lightness of the adhesions. The adherence of the omentum to the anterior abdominal wall was responsible for ordema of the parietal peritoneum. In cases with the latter condition and the cut of blood stained peritoneal evudite the possibility of omental torsion should be considered. We operation a parametral incision is best.

HLRMAN H HUBER M D

Grausman P M and Jaffe H L Cystic Lymph angloma of the Greater Omentum 111 5 g 19 8 lyrry 66

Following a case report the authors state that they believe cystic lymphangiomata to be true

blastomata ar sing in the greater omentum from undifferentiated mesenchyme which is capable of p oducing lymphatic vessels by prof feration of lympha gioblasts Many of these newly formed lymphatic ve sel become enla ged and cyst e be cause of blocks grof th outlets and poss bly heart e they are blind e 1 S me of the original lym phati we el a e al o ob t ucted and show second ary hanges such as 11 tation and pr lfr tion of the end th lum In th auth sopmon the pre fo med lymphates e n t invol ed in the turn gro vth EACO TT MD

### GASTRO INTESTINAL TRACT

me G W and Desser R Tie Use of Amyl Nit ite s an Ant pa m di in the Roentgen Holme G W and Desser R Ex m n tion of the G tro intestin I T ct 1m J R tg l 98 x1 44

Th a thors restrict his ue of the term spam to deform tie of the stomach and duod num which smulate an orga I on The trm pvl ro spism they u to des gnate fa lure f the pylor s to pninth usual ma er Thy state th tall spam probably tan to v s ree amnat on t a later date ve v ften shows a chang d cond tion or enti e ab e ce f pasm

Atropi e has been y d ly us d to elax spa m f the gato int stinal tact Dung the pat v the t thors h v mploy d amvl n trit n tead of atrop n in o r co vamin tio Amyl nit te has the advantage f produce an imm d t fict the eby nd ng it un ar fr th pat ent to return on s b equ t date The fum ar fr the of one top I sa e inhaled by the pat ent while ly ng on the hir o tal table and the am nation s mal a so as the patient e pe enc th obb n of the temples light d zn sania arm fl h d f lig \ unto ard esult hav b en not d Amil it te h s b found spec Il alu ble in the e am nat on of the a stable p st c typ of нп CL M D colon LI R

Case J T and Boldyreff W N The Influence of tle Roentg n R y upon Ga t le Secr tlon 9 8 x1x 6 J K tg 1

A evi v fth lt atur c ls th t the r sults fextrim t t d t mn th nfluence of th roe tgen a sup gat it ert on e nfu ng and conflit ng The a tho s attempted t study the esults fa he vy dos of hort a length ro ntgen ra up both pha e of gast s cret o The fit o psv h al phae s th t prod ced by the appet te and th s ond or chemical ph se i that I due d b the a ton of strat ub st nce nd absorb d pr duct of dg ted food pnth gati gland

The pich cal phas was tudid 1 dog 1th a git cit tul and ce ophago tomy Sham feding ftr the n th 1 f Ia low employed For the tudy of the se done se dogs r pr p with an isolated stomach pouch after the method of He d nham In both phases the quantity of secretion was dim nished although the effect was tempo ary in both ca es There was no alteration n the p opert es of the juice secreted The return to normal as slower in the chem cal phase then in the p vehi al phase requiring about eight weeks

The autho's conclude that high voltage deep A av treatment acts only upon the functional acti its vithout destroying the vitality of the d gesti e glands and that any result obtained in th tratment of gastric or duodenal ulcer is likely to b tans tory CHARLES II HEACOCK MD

Aris I. An In estigation Into Defects n the Pal ric Pa t of the Stomach 4ct rd 1 0 1

The author describes va jous types of defects in the wall of the pyloric po tion of the stomach. He stat s that he has often noted quite large defects hich did not d stu b peristaltic movements and in sev al cases fou d that they vere caused by large folds of the mucous membrane. He discusses the p cedure by hich such d fects may be differen to t d f om the defects p oduced by benign and malignant tumors and emphasizes the importance of cogni ing them in order that an erroneous diag n is of ulcer nay be a orded

Clarle Bl cl M ser nd Cunéo The End Re suits of the Treatm nt if Ga t le Uleers by Gastropylo eetomy koch rs Op ration !

T nty Se en G ses Re mined (Le re li its él g d t tem t d lè g trae pril g t plc t m p t d k che depè ?

(e) Bill 1 & Se 1 & Se 1 & Acht of p ١ 187

In seventeen of the tenty seven cales discussed by the authors gastropylorectomy by Locher's s don for ulcer of the pyl rus in nine tor ulcer of the lesser curvat re and in o e for ulcer of the d odenum Twenty five of the patients rould be c nsidered cu ed Two had had a other opera tion In twenty one cases the cure was complete all subjective and objective symptoms had eased the e had been a gain in wei ht and the patient was not ohl ed to f flow a diet Four patients com plained f slight gast c disturbanc s and a feeling of beave ess aft r m als In two cas s complaint was made of a l ss of weight anore in vomiting nd pain but a recurrence of th ulcer could be found

In th group of cases in which the cure was com plete \ a) examination showed the stomach to be small but t nd ng to increase slightly in size with the lapse f time s n e the peration Irregular ties in th lesser curvature which were noted in some nst nces corr spond d to the suture of the part of the tomach which formed the les e c r ature sec n da ly Evacuat n although not entirely reg lar s quit sim lar t that of the orm 1 stomach

In th s s ith sight gast ic disturba ces the shape of the stomach suggested a bagpipe a devacu ation vas slower sometimes tak n two hour

In the ca es with more marked disturbances the stomach was hilocular with a deep fixed niche on the greater curvature and the omentum was folded hack toward the top ANNA L PACE

Pickhardt O C Concomitant Gastric and Duo denal Ulcers Two and One Half Years Post operative Ann St g 19 8 lxxxvii 143

Pickhardt reports the case of a woman fifty eight years of age who was suddenly seized with sharp cramp like pain in the right upper quadrant of the abdomen The pains did not radiate and were not associated with vomiting or anorexia. The patient stated that thirty years previously she was in hed for two days with abdominal cramps and that two years ago she had bad another attack of sharp pains localized in the right upper quadrant of the

abdomen

Physical examination revealed a smooth firm and fixed tender mass in the right upper quadrant in below the costal margin and I in to the right of the umbilicus The test meal showed a slight increase in acidity The blood chemistry and blood count were normal and the Wassermann test was negative. The faces showed a trace of blood. The X ray revealed (1) a penetrating ulcer in the middle third of the lesser curvature of the stomach (2) an annular growth at the pylorus causing obstruction and (3) deformity of the pylorus suggesting scarring and There was no evidence of vigorous ulceration peristalsis Retention was marked

Operation revealed on the anterior surface of the duodenum just distal to the pyloric vein a freshly perforated ulcer which bad attached itself to the peritoneum opposite and to the right of the umbili cus causing the stomach to twist upon itself the juncture of the first and second parts of the duodenum posteriorly there was a large soft and slightly indurated mass which showed through an area of redness and scarring when the duodenum was At the lesser curvature about midway hetween the pylorus and the cardia there was a soft mass measuring 1 by cm at the posterior aspect of the stomach On the anterior surface of the stomach midway hetween the les er and greater curvatures there was a small bealed area with very little induration which was attached by long old adhesions to the gastrosplenic ligaments

A posterior gastro enterostomy was performed and hefore closure the omentum was placed over

the hursed ulcers

The posterior course was normal until the eighth day when the patient began to vomit foul dark material in which a large ascaris lumbricoides worm was found The vomiting continued for three days and then ceased under treatment by lavage

An \ ray examination made hefore the patient s discharge from the hospital showed the barium meal passing through both the pylorus and the stoma The stomach emptied completely in four hours One year later the findings were practically the ame HARRY W FINE M D

Junghagen S Lymphogranulomatosis of the Stomach (Lymphogranulomatose im Ventrikel)
1cta radiol 19 7 viii 317

The author describes two forms in which lympho granulomatosis may occur in the stomach. In one it is part of a generalized condition and in the other the tumor form it is restricted to the stomach

In the first form the roentgen picture resembles that of gastric ulcer unless multiple ulcers in an extensive indurated area and the failure of con

servative treatment suggest malignancy

In the second or tumor form which is usually found in the pyloric canal there is a quite circum scribed tumor which causes stenosis of the lumen When the lymphogranulomatous granulation tissue does not involve the muscularis or infiltrates it only slightly there is a certain motility of the outline which with marked distinctness of the cuff shaped and quite extensive area of steno is may be considered characteristic of this stage of the condition In other respects the rountgen picture resemble most closely that of a malignant tumor

The author suggests that limits plastica may be identical with lymphogranulomatosis of the stomach

Balfour D C The Principles of Gastric Surgery

W 1esota W d 102 x 68

Ballour D C The Nangement of Lesions of the Stomach and Duodenum Complicated by Hamoringe J Am W 185 1937 1 xxxx 16 6 Ballour D C The Results of Operation for Duodenal Ulcer in Physicians inn Surg

1927 lxxxv1 691

In discussing the principles of gastric surgery Balfour says that the more the experience acquired in the surgical treatment of lesions of the stomach the greater the conviction that propress in the management of peptic ulcer will depend on a more intelligent selection of cases for operation and a better appreciation of the general principles of those operations which experience has shown to he worthy of application. The selection of the operation depends upon many factors the chief of which are the condition of the patient the stage of the disea e the situation and character of the lesion and the complications associated with it

The value of posterior gastro enterostomy is proved beyond any doubt since in properly selected cases this operation not only brings about a com plete and permanent cure of symptoms hut has an advantage over all other types of operation for lesions of the stomach and duodenum in that it is non destructive. Its greatest value is in the treat ment of duodenal ulcer associated with obstruction It is frequently necessary in cases of gastric uleer in which it is used with local excision to protect against further ulc ration and motor mal function In cancer of the stomach posterior gas troenterostomy occasionally affords great relief when there is marked obstruction and the growth is small hut irremovable because of penetration into extragastrie tissue

Anterior gastro entcrostomy is an excellent sub stitute for posterior gastro ent rostomy and has the same advantages. The di dyaotag of anter or gastro enterostomy namely that in some cas s the pro imal loop does not drain sat sfactorily can be obviated by car ying out an int ro anastomosi

Pyloroplasty is oc asionally pref rahl for chronic duoden I ulcer or chro ic ga tric ulcer when the lesion is in the pylo ie end of the toma h The chief objection to pyloropi sty is the fact that in a conside able percentag of ca e of duo len l'ul er there are multiple les ons. On the other had the procedure is aluable in the bl eding typ of ule r because it may include a i ct att ko th le ion and if a ree irre ee of ulce at a take plac suh sequently a seco day operation u ally greto enterostomy can be cand out a thout gr t diffi ulty

In cas swith marked obst ton nahi h ga tro enterostomy contra indicated b aus of techn al difficults and the luodenum 1 larg n gh f r a satisfacto, open rg het een the st m h and duodenum in front of the ste of betru to gas troduodenost my is a valuable pr c lu

Part al duod nectomy semply d h fly fr posterio ulce s of the duodenum pa ticula la those of the bleed ng type Will it has limited indication t is an important p oc du e and i afe hen it can be satisfacto ilv a 1 d ut

Jejunost my is occas nally f gr at alu in case of high lying benign and m abl le ns

of the st mach and duod num

Fa tial gastrectomy affo d the 1 pos ihle cu fo gastr care noma It is ne fth m tfa r d types f operatio fo ch on g t culcer nd t and cated lso in recurring ulcers f llo ing op ra tions As a p imary p cedu for chron c lu denal ulcer it is un ar anted a d Il nex r b com an ope ation of choice. The two has types figat in resection are the Bill th I and its mo lift t as and the B llroth Il and it m dificat ns For g tric careinoma the latt typ the m re at factory The chief indication f factory The chief indication f prital g tec a deep crater and extens e induration about the ulcer Th possibility that such lesion my be malignant necessitates a cl an cut removal lart al gastrect my is indicated all o when other one at his have fald to ure a chromic p pt culcer

In d cussing the management of les ons of the stomach and duodenum complete d by hæmor rhag Balfour states th t mea es of p pt uke death arely results from a ingle massi e bæmo rhage but may result nd ectl because of on tinuou bleeding although with proper mana ment of the case thi alo ra For the e reaso s and hecause it is attended hy a higher mo tal ty than n n operative measure the surg cal treat ment of acute massiv g st e hæm rrhage regard less of its cause is a odd by rg ons. How yer when hæmor hage from a p ptie ulcer r eurs b fo e the patient las fully reco e ed from the

hæmorrhage operation preceded by transfusion should he performed as an emergency procedure for secondary hemorrh g

Duodenal ulee is the most common cuse of hæm rrh ge f om lesions of the stom ch and duo denum Of the 072 eases of duoden lulcer in th h op rat on was performed in th. M to Clinic during 1921 and 10 there was a history of proved g o s hamorrhage in 18 per cent The cause of the tle ling is not always clear in some cases there may h a direct e osion of the gastroduodenal or sup rior pan r atte duodenal artery but in others no gross d feet in the mu o a of the du denum can b found In making a fragnosis in the e cases it must f at h establ hed that the hæmorrhage is pr marily from the stomach or duod num Extrins c a se shuld then be excluded although both e trin c and intrin c causes may he p esent in the sam ca e It may be safely asserted that duodenal lee h compl ated by harmor hag is a surgical n I tion h t th ly ab lity of operating should be ca fully ve ghed when hamorrh ge has occurred

1 at ent ho he ause of age or other factors is po conditi n f r operati n Transfusions jule sly us d befo e operation and if neces ary aft roar I ill e nt but much to the rap dity and ompl ten s of the reco ery There is a stead ly ine a ng tendency toward direct operation in case of bleeding duodenal ulcer g n rally an on of the les on hut if the duodenum can be s t facto ly m blzcd partial duodenectomy may b p formed

Of the cas fgatr culcers in the sees reveved as a complication of gross hemorrhage in op re at Fatal hæmorrhage from a gastre ulær may occur but t s ra ely a p imary hemorrhage The peri need el nician and roentgenologist to g th r an usually det rmine the presenc or absence f gastric ule r If a negative report is g ven on p ted examin tion a search at ope ation for a I sio of the stomach will usually be fru tless. In ases of gast c ulce complicated by ha-morrhage the die tion fo op ration are more positi e than n cases of du lenal ulcer and the management is on a definite bas The advisability of operation should be qu st ned only when the condition of the pat ent pp rently prohibits such treatment. The results of a ious types of op rati n show that o far as the contril of hæmorrhage is concerned remo al of the 1 s on offers definit ly greater pro tection ag ost fu ther hæmor hag th n an in d eet operatio g tr enterostomy or j junostomy

Gr ss hæm rrh ge from primary ga tr c eancer i are it occu d in 75 pe cent of the cases in the eres review d G os hæmorrhage pr se has no particular su g al significance except the important fact that it sugge ts a lesion other than cancer Hemorrh g while somethat rale in the early stage of c re noma may he most distr s ing in the later stag s and removal of the les nat p rat on aside fr m th prospect of cure in f r ble cases is a protection against thi d stress ng e mplication

Although benign tumors of the stomach are rare in about 10 per cent of the fifty eight cases in which operation was performed at the Mayo Clinic there had been a history of gross hemorrhage. Marked secondary anymia however was common in these cases. The surgical treatment of benign tumors can practically always be earned out satisfactorily. The majority of such neoplasms are in the pyloric end of the stomach and can be removed with facility through an incision in the anterior wall but in cases of certain large tumors particularly those in which malignant degeneration is suspected partial gastrectomy is preferable.

Balfour's report on the results of operation for duodenal uleer in 100 physicians was compiled for everal reasons the most important of which were that the cases were carefully selected representing the chronic case in which operation is clearly in dicated and that as physicians have difficulty in carrying out a postoperative regimen which deminds regularity in hibits of living and eating the results of surgical treatment in this group should be more than a fair test of its value

The average age of the patients was forty seven vears and the average time since the onset of symptoms was thritten years. The operations per formed were posterior gastro enterostomy in 80 per cent excision alone in 6 per cent anterior gastro enterostomy in 3 per cent and gastroduodenostomy in 3 per cent.

n per cent

A summary of the results of these various types of summary of the results of the 100 cases the outcome cun be classified as completely suisfactory In 6 of the 100 cases relief has been incomplete but since all of these patients considered that the operation had been worth while the operation may be classified as successful in 1 total of 90 per cent. The of the 100 patients have had a secondary operation and the remaining 5 report persistence of 5 mptoms of such a character that the operative treatment must be classified as a failure although 3 of the 5 attribute their 53 mptoms to disease of other organs particularly the gall bladder

If results are estimated from the standpoint of what can be accomplished by a policy of conserva tive operation for duodenal ulcer followed by a secondary operation if symptoms recur the present condition of the patients demonstrates that the result of conservative measures is satisfactory in 93 per cent of the cases The source of this information seems to establish the fact that a conservative attitude toward the treatment of duodenal ulcer is

sound

Borchers E Successful Resection of the Upper Italf of the Stomach (Erfolgreiche Resektion der oberen Magenhaelfte) Un enden ned il 1 scl 19 7 l iv 1454

Borchers reports the case of a patient fifty one years old in whom he successfully resected the upper half of the stomach for careinoma. For the anastomosis of the coophagus to the stump af

stomach it must be possible after incision of the peritoneum to pull the esophagus well down and to apply it to the pyloric portion of the stomach with case. As long a portion of the esophagus as possible must be covered by gastric nucosa according to Linman's method. This seroes should be sutured around the esophagus and the stomach fixed to the disphragm.

In Borcher's opinion resection of the upper portion of the stometh for careinoma should be per formed more frequently as in this region the lesion is relatively less malignant than in other parts of the stomach. The results will improve when the operation is developed as a typical strictly abdominal procedure.

Demel R The Nutrition of the Intestine After Ligation of the Vessels in the Mesentery Practical Recommendations Based on Experiments on Anima'ls (Zur Tage der P nichtung des Darmes bei Gefae sunterbindum in Mesen terium Vorschlaege für r die P avs. auf Crund von Terversuchen) i If Bi (Err. 927 c lu 701

Demel reports a large number of experiments earned out on dogs to study the nutrition of the intestines after ligation of the vessels of the mesen tery. Previous experiments had shown that it makes a difference whether the mesentery is severed close to the bowel or farther away. The experiments here reported were made to determine which vascular branches in the mesentery can be interrupted and it what points in their course this can be done without danger.

In various series of experiments ligatures were placed at different points on vessels of the first and second order terminal marginal and radial branches It was found that after ligation of ves sels of the first order proximal to the point where branches of the second order are given off good nutrition of the bowel was maintained only if not more than two adjacent branches of the first order were ligated If three or more branches were ligated gangrene of the bowel resulted Ligation of branches of the second order v as associated with less danger to the nutrition of the intestine as many as four adjacent branches of this order could be ligated Ligation of a terminal branch caused no disturbance Ligation of the radial branches was very dangerous and could be performed only at a distance of a cm

These results show that when ligation of the vessels of the mesentery is necessary the ligation of vessels of the first order should be avoided if possible Ligation of branches of the second order is better and permits the liberation of large segments of intestine from the mesentery without danger of gangrene. In the ligation of terminal radial and marginal branches great care is necessary.

In experiments on the ligation of vessels of the mesocolon no disturbiness resulted when the cohea media was ligated. The colon could bear ligation of a radial vessel for a distance of only 3.

cm As the colon of the dog has a much richer blood supply than the colon of man these finding emph 1 e the importance of pectal care in the 1 gation of radial ves els of the human colon DE C s (Z)

Jayle F End m triosis of the Interney that B F ception of the R etum (L l m d l t t m ept) R f c d g e t d b t o 7 yn 30

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The chagn is snarl al asy m de by micro copic amunit in f p men rem lat pria t in Whe the indimetrial gum r the pet e l go usually or canom lint happe is endometrios on m r copi e aminat nfoll gappent tomy for act o hron appendix

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St phen onclud's that m inpulat e reduction shuld be the mpted in e by case. When the attempt f l in ham h s been d ine if the peclu h b n p pelv carred out and p prop at sug al treatment can be instituted immediately.

Olch I Y Du denal Regu gitati n as a Facto in the Neutralization of Gastric Acidity 1 ch S g 9 8 5

In his studies of duodenal regurgitation Othchose histamne as a standard stimulant for the secrition of gastric juice because it is stable and as it is stable and as a stable and as at the control of the of the gast is circuit in swoold. He calls attention to the fact that the results of the usual test meal ar u satisfacto you account of the variable chemical composition of the substances 1 gested a chiefficial control of the substances 1 gested a chiefficial control of the substances of the provider passes of the psychic phase on gastrie sceretion.

psychic phase on gastrie secretion.

The cre obt med after the intramuscular injection of x mgm of h stamine into the normal dog is in The cre of the samptied expry ten min ut s and to ccm of the gastric contents were titrated it then thornam is sodium hydrox de T pfer eag nt and phe olphth kin being ut did as it did to S. The effect of the drug a snot ced in the first aspirit on and the h ghest degree of acidity as reached from the tvo forty minutes after the min citon. This was equival int to 45 per cent of bydrochio c acd shiethly less than the degree of

ac dist figure gist i juice as secreted. Variations re not marked nin rmal dogs in no case be gimore than ten during the first sity minutes of the e mait on. The amount if fluid withdrawn from the tomach represented programment of the tomach represented programment is set to gist he pylorus plus an amount in the second programment is set to gist he pylorus plus an amount in the second programment is second programment.

added hy the regagt tion of the duodenal flud When a mod rate amount ( oo c em ) of o s per c thed chl ric acid (the concentration at which th gastr c hydrochlor c aud is secreted) is intro du d into the stemach the acidity decreases in de g ee as the flu d lea es the stomach This decrease is caused hy neutral; ation of the ac d by regurgita t on of the alkaline duoden I fluid which is com posed of pancreatic in ce bile and s ccus enter cus The p acreatic ju ce 1 the most important of these three se retions bec use it is produced in large amounts when the degree of acidity of the stomach is h gh and also because its alkal nity is much greater than that of the two other flu ds This regurgitat on of p nereatic ju ce hich was first noted by Boldy reff and called hy h m the self regulating mecha n sm of the stomach is a constant occurrence in the e ting as vell as the act ve stomach Pancreatic ju i creted a d ct response t gastr c acidity nd on of its functions is to neutral z the latter b fore the ac d reaches the much more sensitive i testinal muc a

In type ments carried out on dogs to determine the numeroe of nervous control on the secretion of the stomach branches of the vagus ne e were see to ned 1 trathoracie lly int a abdom nally and by circumcis on of the prepylo ic p rt of th stomach. The results obtained were info m regardless of the sto of th section In e or yease the degree of gas t c aculty was d musshed app rently because of the more patulous condition of the pylorus.

The author comments upon various procedures performed upon the stomach for ulcer As a rapid decrease in acidity is the ideal result to be obtained he believes that resection and pyloroplasty offer the greatest promise of cure because they favor regurgitation of the duodenal contents with resultant neu tralization of the acidity. He does not favor gastro MORRIS A SLOCUM M D enterostomy

Wheeler Sir W I DeC A Case of Actinomycotic Ulceration of the Duodenum and Jejunum Brit J S rg 19 8 XV 430

So far as can be ascertained from the literature ulceration of the duodenum from actinomy cotic in fection is very rare

The case reported by the author was that of a man forty years of age who had been suffering for four months from vague abdominal pains loss of weight and appetite and gastric stasis. On the pa tient's admission to the hospital his temperature ranged from 90 to roz degrees I and he showed definite cachevia. After his admission he had a severe attack of hamatemesis Examination re vealed tenderness and some rigidity above the umbilicus Hydrochloric acid was absent from the stomach contents

ray examination showed the stomach to be dilated and hypotonic There was diffuse narrowing of the pyloric segment with gross irregularity of out line in both curvatures A diagnosis of pyloric ob struction due to carcinoma was made

At operation in which the abdomen was opened in the midline above the umbilicus a loop of jejunum about I ft from the duodenoieiunal flexure was found to be the site of a tumor and adherent to the omentum and the neighboring coils of intestines on its surface. The tumor was red and acutely inflamed In two or three places perforations closed by loose adhesions passed through the inflamed area into the lumen of the intestine The loop of jejunum was resceted and an end to end anastomosis done

On the eighth day after the operation the patient experienced a sudden pain probably due to per

foration and died a few hours later

At autopsy the third portion of the duodenum was found to be ulcerated in much the same manner as the resected loop The cause of death was leakage at the line of anastomosis

The portion of intestine removed at operation showed two perforations Except for the inflamma tion in the immediate vicinity of the perforations there was relatively little peritoritis. The mucous surface presented two transverse ulcers which were partly confluent and extended circularly around al most the entire circumference of the intestine. The edges were ragged and partly undermined and there was a red line of intense inflammation about their margins The floors of the ulcers were shaggy and covered by a dark green adherent slough

Microscopic sections showed the surface of the ulcer to be covered by necrotic material containing a moderate number of pus cells and many bacteria

Beneath this the inflammation was of a more or less subacute or chronic type plasma cells were very numerous and the general background of the struc ture was that of granulation tissue This inflamma tory process extended down to the muscular layers The bacteria in the slough were cocci and bacilli Some of the latter were long and filamentous In the floor of the ulcer there were several clumps of micro organisms composed of branching partly beaded fila ments arranged in a radiating fashion and of a type closely resembling the streptothrix

Autopsy showed the second and third parts of the duodenum also to be perforated and revealed a large ulcer beginning at the bile papilla and extending lengthwise as far as the duodenojejunal flexure and circularly around the entire circumference of the bowel The ulcer resembled the lesson previously found but was more extensive and had a more shaggy greenish base. Its floor was composed of a

ragged mass of necrotic tissue

The patient had suffered from a rare severe ulcer ative condition of the duodenum and jejunum The ulceration was of an almost diphtheritic type with comparatively little suppuration the tissue reaction being mainly of the plasma cell type with lymphoid cell infiltration Many microorganisms were found in the superficial sloughs but the preponderating one was of the streptothrix type Organisms of the ray fungus type were found in the floor of the icjunal ulcer but only in the slough of the duodenal ulcer No streptothrix was found in the lymphatic glands According to Cope secondary deposits of this or ganism in lymphatic nodes are unusual

HOWARD A MCKNIGHT M D

Schlanger P and Finochletto R Ulcer of the Duodenum Snail Stomach and Partial In sufficiency of the Pylorus (Ulcera del duodeno estóma o en caracol e insufficiencia parcial del piloro) Semana med 1927 xxxiv 1093

In the case of a patient thirty two years of age who was admitted to the hospital with the symptoms of gastric ulcer roentgen examination showed the picture of the condition variously called tobacco pouch stomach shaped stomach There was retraction of the lesser curvature with displacement of the pylorus upward and to the left (toward the cardia) and displacement of the prepyloric portion of the greater curvature upward and to the right There was also insufficiency of the pylorus This picture is caused by spistic retraction of the lesser curvature due to ulcer of the lesser curvature or the duodenum

AUDREY G MORGAN M D

Thompson W and Stewart M J A Remarkable Example of the Tendency Toward Recurrent Peptic Ulceration Following Gastro Enteros tomy for Duodenal Ulcer Brit J S g 1928 TV 517

The author reports the case of a patient who was subjected during a period of sixteen years to five separate operations upon his stomach four gastro

enterestome sand a partial gatectorm. He haved for t yar after th 1 tinte ventuo and li lof her ac interstual n ph tis and art rosclero; Tho gat luter have headed and a frish one d lip lin arth at the litopera ton E at atut post the state post in the mailer minage pit in of the tomach. The first operation a pit mil in 100 to cool disposition of the first headed of the fifth no g. H. V. H. H. n. 2 M. D. V. H. The 2 M. D.

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contributing c s f hi h sgant ton
The cl of hildhood h saunf mappe an e tisu lly fre f m th m nor tio found n lat r life such a th s re ulti g f om ord nary accidental ar and t a The typical chi ct rist c of the adult cla desty of app a an e Its confo m t on t the h b tus subjects it t a wide ra gc of morpholog cal va at o s The colon f the me o ntomo ph oft ref rr d to a the hyp r the c colo li h gh n th abdomen de a ide ostal a h It relat els h t and it cæcum is freq ently f und n r the second po it n The colon of the hyperontomo ph s met m s called the hyposthene In ha gs low n the abd men h t cen a nar c tal chad sr lati efy long in all of ts compo ent Bet in thes tw type are found mero g adat one any one of hich may b co sd ed m phol g cally typ cal fra g ven indi id al b t heil conside el must al b or d fun t nally norm I for that had al

fn th col as all the orga the occurrence, of punful or d abl g symptom 1 almo t al vays tric able to the protective reaction of the organism Pun's ginks spasm rather than dilatation. Alterations i mot hits too frequently considered patholo i 1 nittles are 1 real ty physiological reactions t path logi al states which are of a protective nit e

The ffect of grasstation upon the human abdomen be log be nemphas zed. The authors a e convict have that the anomalies under discussion a e al no tinvariably of chromosomic de ivation \( \text{\text{N}} \) is obtained by the conversion of the state of colon segme to interferes with

the norm I geometrical relationship of the circular and long tudi. I muscle f bers

The nf rmation gained by routine examination of the alimentary canal by the usual opaq e senal

n al r lates largely to funct on Gros angulations of the transverse colon are ecounter d with g cat frequency. The sign ficance of pr m is all ay difficult to evaluate. Spasm that apper is n't pr ists and is accompanied by pan

h uld ever be d steg ded
Th human colon always presents certan well
if fined character; it is of size contour and position
The of grava film is of vale principally for the
if mat on it gives concerning these three elements
Morist H. Mar M.D.
Morist H. Mar M.D.

## By gen J A Th T e tment of Chronic Ulce ti e Col t s W / W d g 689

Of 9 eas of chrone ulcerative coliti in which ce ince of fill atte as administered ind foci were e aid it d a clini ale re resulted in 85 and an attent 75 per eint cure (measu ed by the pat int ability to perform his usual act y ties) was obtined 1.7 The e was no med cattin in these cases

Of 10 cases n hich accine or filtrate vas ad m ni te ed and one o many additio ial therape to agent ( nelud ng tineture of jodine gentian violet tch hazel m reurochrome ka lin bism th and pi m) we eemply d a clinical u e res lt d 08 nd 75 per e nt eure n 33 Thi makes a total of 53 (76 5 per cent) in h ch sympt ms were bot sh I and 40 in which the disability was slight al th gh s me symptoms persited or p ctoscop c exam nation re caled residual signs of the dis ase In 4 of th 53 cases the rem si ns have I sted for more than a year and in a co siderable number for th ee years In 51 of these cases the rectal m cosa has been f und entir ly clear on procto copic e ami nation In 4 cases the reontg nogram has sho na eturn of hau trations After initial remiss on symptoms hav ccurr d in 4 in 17 of these a cl nical cure again followed treatment

In the 7e ses not already accounted for med cal managem at met with disappoint rest is and n 5 n leosstomy was pe formed. Two of th 5 pa trents diel one from most unusual diffuse ca can matos so fit en it ee lon n vh ch highly m be multiple and ces s. In the sit has colosiony was pe formed f rectal streture and de th occ d late f m care nome a per mposed on the ch on ulcerative colitis. In the eventh ease an ileosig moidostomy was performed during an acute exact bation after the patient's dismissal

Caraven and Basset Strictly Mechanical Obstruc tion of the Intestine without Abscess or Perl tonitis in the Course of an Initial Attack of Appendicitis (Occlusion intestinale stretement mécanique sans abscès ni p ritonite au cours d'une premiè e crise d'append cite) Bull 1 mem Soc nat de chir 927 1111 1104

Basset reports a case of complete intestinal ob struction which was treated by Caraven The pa tient was a girl eighteen years of age who gave a history of a rather severe attack of pain in the lower abdomen twelve days previously Before that attack she had never been ill When she was examined by Caraven the abdomen was relatively flat but dilated loops of bowel could be seen through the abdominal will No peristalsis was noted I alpation revealed slight tenderness just below and to the right of the umbilicus Just above the pubes there was slight cedema No tenderness was found over McBurney s point Rectal examination revealed in the cul de sac a mass which had the elasticity of a cyst. The pulse was 90 and the temperature normal The pre operative diagnosis was intestinal obstruction due probably to paralysis caused by a pelvic abscess of appendicular origin

At the time of operation which was unavoidably lelayed the temperature was subnormal. The pelvis was found filled by the distended ileum There was no peritonitis or abscess. The inflamed but not per forated appendix was pointed upward toward the umbilicus and was adherent at its tip to the small bowel at about the juncture of the jejunum and ileum During the liberation of the alhesions the jejunum was perforated. The patient died a few hours after the operation MICHAELL MASON M D

#### Abdominal Pain of Throat In Brennemann J fections in Children and Appendicatis J tm W 1ss 1927 levely 2 83

In the course of throat infections in childhood there frequently occurs a peculiar abdominal pain that is of great importance in the differential diag nosis of abdominal conditions in which pain is the Among the most important cardinal symptom eomplication which may arise in the course of in feetions in the nose and throat is appendicitis. The nose and throat conditions to which the author refers comprise the whole group of non specifie sporadic endemic epidemic pandemie febrile in fections that have their primary locus in the nose and throat and are variously called tonsillitis pha ryngiti nasopharyngitis ore throat cold bron chitis upper respiratory tract infection angina glandular fever grip and influenza

There are two type of abdominal pun The first type is more frequent than the second and oe curs early It is usually intermittent or colicky and accompanied by little or no tenderness either at its site or elsewhere. It is practically always referred to the region of the umbilious and nearly always if the patient is questioned closely to the umbilious itself. The second type of pain is less sharply de fined usually less severe and more apt to be inter mittent than constant. It may be localized any where in the abdomen but occurs most often at the umbilicus or in the lower right quadrant. There is praetically always an accompanying tenderness es pecially if the appendix is involved. In some cases a mesenterie lymphadenitis may be present

The author has for years noted that in children appendicitis often occurs as a complication or sequel of throat infection On the basis of this observation he has formulated the following concept infection abdominal pain appendicitis the opinion of Evans of the University Clinic Madison Wisconsin that appendicitis is apt to oc cur just after rather than during an infection of

the upper re piratory tract

In conclusion Brennemann states that enteritis is a frequent complication of throat infections and that non appendicial pain in the abdomen is a much more common accompaniment of throat infection in children than pain due to inflammation of the CHARLES F DUBOIS M D appendix

## LIVER GALL BLADDER PANCREAS AND SPLEEN

McIndoe A 11 and Counseller \ S The Bl laterality of the Liver 1 cl S g 927 x 589

The right and left branches of the portal vein are regularly and definitely divided along a line from the fossa for the gall bla lder to the entrance of the hepatic veins into the inferior vena cava Except for the intercellular sinusoids which are probably insufficient to maintain a collateral circulation there is no gross anastomosis across the hnc of separation

The right and left branches of the hopetic artery are also separated in the same manner and at the same situation. There is an arteriolar anastomosis between the right and left sides chiefly between the capsular and vaginal branches but it is not sufficient to prevent infarction of the corresponding lobe following occlusion of either branch

The line of separation of the right and left hepatic ducts is identical with that of the artery and vein but the division is absolute. The facts of embry ology anatomy and pathology are in accord with the assumption that the two areas of liver deter mined by this division which is common to the three vessels represent the true embryological right and left hepatic lobes and that the falciform ligament is merely an arbitrary landmark

# Snell A M and Rowntree L C The Functions of the Liver and Fests of Their Efficacy Of 10 State W J 92 TT 99

During the last decade considerable progress has been made in the study of the liver and its d cases Light has b on throun on the phy ology of the li er and on disturbance in its function in d case T sts ff n tion which a d cade ago nere looked upon as of only ac lem cinte st base now acquired c n id able mport n e n the practice of clinical medici e Altho gh the e t ts base failed to pro e of grat val e in pogno s they have helped m to ally n the r cognity of the pre ence n ture and tent if functional distu bane s They afford valu ble i f rm ton allo as to heth r the 1 stat onary or impr ving liscas is pro thus indicat g hithront oprtion sn es sary. In a ld tion, thay that to cause a more thor ough clinical tul of pt nts sifering from hepati lacandha lalto indvidualizat on n tr atm nt an l th table hment of tr atm nt on a more rat onal ba is

Baset r ports ca e traumater poure f the lar h h strail by Grmanut Th pott nt had be not u k by a te l bar ross the l r part of thech t in lite upp o a lant of the bod me on th right ide. The mu v caus d treme pain but no be kon nera e i the p le rate One hour aft r th a c lent g n aib r l l ke r g dty of the toli m l all pape ant on the sightest to chanipe t d c n h n th pat nts atten t n as d tat d

Opation I d mas we geelt ar abot t em l pro h ight loof the live Ths had p lue d only m l to henor hage Sut e of the tear fir cuto of the r g la edges was foll d by complet r corp. The eyear after tho epati h pat ta tling of condition. In traismittin the serport of immulticalled attention to this feet h cuts after the case dent is peed to prove the condition. The training the content of the condition of the con

Bas et cit is the cae as further e de ce in support of he or int on that the abdominal rigid tymay be as ocat i with nt a abdomin Jhamorria geeinth absence infection Atthet im that hefrist presented the conclus on Le ness a dithat inhis pin in tuer file contra tue of them cles if haddom in Iwallisa eliabli indication of perit in a linfection and I loe not occur regul by n cae so internate blee ling—at least n t at the binning of the hæm or high.

Sh artz and Pot allomainta ned that blood in the abdome does not cause rig d ty Basset cited a numb r of intra abdomnal cond tons which may give rise to abdomnal rig dity in the ab ence of peritoneal infection—renal cole hepatic cole lead cole perforation or gistre or duoden I ulcers with the development of rig dity simultaneously with the pain and before the occurrence of infection and the subscrute crises of mesen terric cysts—and reported a case with marked rigidity in bich operation finaled to reveal peritoriums

In d scuss ng Basset s conclus ons Lecene statel reflect on tracture of the abdominal muscl's a subapacent p ton all infect on should be thought of t i but if the contracture has been preceded by a severe njury the possibil ty of rupture of a v cus should be considered. Merr gt. L Masov MD

Sneff A M and Weir J F Diseases of the Li er nd B le Pa's ges J A W is 97 l

At the present time a number of new clin cal and aboratory crit rin for the study of hepatic disease are vail ble. These additions to our armamen ta um hould be of assistance in the management of acsacs of the lier. While there have not been any noteworthy advances in the cure of hepatics are number of symptomatic remedes have been into duced which seem to be of definite vale to he not only a proper of a distribution and postoperative magement of jaundiced patients have been im procell a divarious measures have be no successify in perployed for the treatment of various types of jo toperature to mmain in this group.

While mu h of the treatment me tioned is empiric I el meal and e perimental av de c seems to ju th its u c. The small successes thus far attai ed should encourage f riher studes in the treatment of heptite d sorders

M Vicar C S and F tts W T Clinical A pect of J undic J im W 1 971 8

McNea and Fitts emphasis e the mpo tance of a clar dit netion by een surgic 1 at home six calcases of jaunod ce. This pre-ents great is of diffic. It, but a facil tated by a pc od of closobervation of the patient in a hosy tal. While we clic calcand laborato you estigate o some being a colout measur smay be 1 situited to coulter act the dange's of ope ating 1 the prese ce of naundic should surgiry be decided upon.

The authors ba e not gained much sistance from the current classificat in sof jaund ce based on polo ged clinical ober tion rautopsy did. They belt chat the essential fraproper class fiction are then a den Berghr action the serum pigment cur e th quantity of bile reaching the dol num and the pee ce and character of p. in.

They favor McNe's els ficatin bt find it de fit in the structure of the country of the define of the structure of the country of the country ponts narro do n to pan excess of ble to the intestin fitra t and the serum p gm nt cur c

The authors discuss the significance of the pres ence absence and nature of pain in the diagnosis of stones pressure on the duct distention of the liver and malignant disease and the significance of recurrent pain after operation. Severe colic after an operation for stones does not always indicate recurrence of stone In the authors eries of cases of henign stricture without stones there was a his tory of severe colic in 90 per cent

The significance of high concentration of hilirubin in the blood is discussed particularly in relation to carcinoma of the pancreas. The authors did not encounter this disease in patients under the age of thirty nine years. While carcinoma of the pan creas occludes the duct absence of bile from the duodenal contents is not an infallible diagno tic point The duodenum may not have been reached or intrabepatic di ease may bave interrupted the flow The authors recommend repeated duodenal drainage to obviate these sources of error

The advantages of determining the bilirubin in the serum are presented. The changes in level occur more quickly than the visible manifestations of jaundice and when the level is high changes cannot be measured by clinical observation authors prefer the van den Bergh method to the Meulengracht method for various reasons including the advantage of the information conveyed by the

type of reaction

Cholecy stitus seldom calls for n determination of

the concentration of serum pigment

Of the less important signs the authors find few of much significance in determining the origin of the jaundice Variations in the color of the skin and the presence of pruritus have no constant signi ficance Courvoisier's law is not as well supported clinically as it is at autopsy and interpretation of the findings of palpation in the region of the gall bladder is hazardous Brady cardia in jaundice the authors characterize as almost a myth

Tests of function have not been of value in diag nosis because structural injury does not go hand in hand with impairment of function and even if dysfunction is present its degree cannot be made the basis for diagnostic conclusions. The examination of the urine for urobilin or urobilinogen has not found as much favor with the authors as with others since the cardinal question is whether or not bile is reaching the intestine. This can be deter mined more accurately and directly by siphonage of the duodenum A case is cited in which the uro bilinogen test was misleading

Tests of pancreatic function are uncertain becau e enzyme activity depends on other constituents of the duodenal juices Moreover the common hile duct may be occluded by a pancreatic tumor when

the pancreatic duct is patent

The measures to be taken to reduce the risk of hæmorrhage are reviewed. The method of admin istering calcium chloride is de crihed. Transfu ion is necessary if delay in coagulation persists. It may be nece sary to repeat these measures

Hesd C G Acute Hepatic Degeneration Chole cystogastrostomy An: Surg 1928 lxxxvii 146

Heyd reports the case of a man twenty six years of age who entered the hospital complaining of jaundice nausea vomiting weakness and mental depression During the previous six weeks he had His illness hegan about two months lost o lb previously with fever and weakness. The jaundice first appeared about two weeks after the onset of the fever increased in intensity for about three weeks then faded and after an interval of a few days recurred with fever and vomiting. There was no pain but the condition was associated with considerable eructation of gas. The patient stated that his stools were gray His previous surgical history included a mastoid operation a septum operation tonsillectomy and adenoidectomy

The physical examination was negative except for tenderness in the right upper quadrant of the abdomen and a palpable liver and spicen A tenta tive diagnosis of obstructive jaundice-probably of toxic origin-was made. The leucocyte count was 11 800 and the platelet count 24 000 The Wasser mann test was negative. The icterus index was The van den Bergb direct test was r+ the van den Bergh indirect test 3+ and the Fouchet test 3+

Tay examination of the gall bladder region re vealed no evidence of calculi. The right lobe of the liver was markedly enlarged but it free border was quite smooth. Tay examination of the lidneys was negative. Tay examination of the gastro intestinal tract was also negative except for colonic spasm and stasis in an irregular segmented appendix The stools were uniformly clay colored

At operation the liver was found to be twice the size that is normal for the patient sage weight and stature There was no evidence of fibrosis of Glisson's capsule The abdomen contained about 300 e cm of pale amber ascitic fluid The gall bladder was thickened but without stones common duct was narrow but not thickened The lymph glands at the juncture of the cystic and common ducts were enlarged The pancreas was softer than normal The gastroduodenal segment was negative The lower abdomen was not ex plored The operation consisted in cholecystogas trostomy with application of the gall bladder to the lesser curvature of the stomach about 3 cm from the pyloric ring The suture line was re inforced hy wrapping a portion of the greater omentum about it and a small eigarette drain was placed in Morrison s

Aside from nausea which lasted for six days the postoperative course was uneventful. The jaundice quickly decreased in intensity the hile tests ap proached normal and the stools became of a normal color

The author believes that the underlying factor in this case was an infectious or toxic condition with degeneration of the hepatic parenchyma. He con cludes that as a result of the destruction of the her cells the bile canalical became blocked with be hen down cellular detrius and bile thrombi The cyl list of the lier cells continued with the formation of o call d lab s fible Two factors e c at play (1) p many distruction due t a hematogen us pros 1 (1) the mecha cyl factor vith obstruct n f the mall bile call cult The final re it so f r as the liver as concer e! as an intense cedema of the e tre o gan. The conlition can be described las a hydron part.

The purpose for h ch the holecy tog strostomy was d ne to lrai the li e of the xdema fluid and thereby elie e the pas ve co gestio

H RR W F1 MD

Judd E S and Counselle V S Tie Effect of Obtuct Le ons of the Common Du t of th Lie J i II i 9 1 1

Stones n the c mmon lu t and b ign traumat; is ctr b can f th long durat n and so atel h one cholang its prize nl m l rate h lich pato and aright gres of bl v cirhosis. The lib lid ris intratif Malgiant teture of the commind to a tith with mark d hyd ohepat ind pach m l at phy but with little r no bill y cirrhosis. The gall bladder i u utill miss. All the list of the mind of

Coroir law applisas illth nta h patc biliary sist mat the gfl blalfad c mmon dut and the conditin of the latt and vof the hangs in the form I the h borig of chncift too the petal culture after E lyrl fof betruct nisental

Boyden E A Concerning the P alent Den ts
f Fun t ns Long Att ibut d to the G li
Bl dder S & G C Ob 1 9 8 1 3

To radical con eption that have re eved o sider ble emphasi n rece tives are this the gall bladder do not play as gminca trole in digest n a d that the apassi e organ. The fit of this ewn in longer ten ble and the sec nd fast be g disposed.

One of the arg ments ponth hithe de alof c twe funct of the gall bl dde as bad as that contract on of th orga had e er been obse ed during ope aton Thi a du ho e er to th ab ence of A ustained t mulus f ront action t the time of ope at on the t mach and du denum u ually being empty and to the hibit of contraction by the mechanical manipulation cide to to the ope t na d the de p ethe anx the alf the bedomen ope ed under leal anx thess contract of the time of the contraction by the mechanical elical anx thess contract not be the contraction by the mechanical elical anx thess contracts of the part of the bedomen ope ed under leal anx thess contracts of the contract of the part of the

The function of the gall bl dde a a storag orga was denied on the b sof the 1 e f the og n It as argued that the gall bladd r 1 too mall t h ld all of the b le that 1 se reted n t ve t; four hours Rec nt in est g t ns have shown be ever th t no uch demand m de uron th organ ce much of the bile secreted by the liver passes continuously
for a t me follov i g meal and at longer i tervals
d r g f st ng

In the last fe years it has been sho nal othat the gall bladde ha g eat concentrating po er a dithat fequently it di charge part of its contents d ring fa ting and all or much of it contents after meal

A othe argum nt a lyanced as indeating the relate enumportance of the gall bladd is as that the o gan may apparently be removed with in punity. Friquently he event cholecystectomy results in ell ecognized dige tive dit to bances and the first effect of the operation is dilatation of the et hep te duct

By th G aham method of cholecy tography it is 1 co e d that eggs volk and cream produce complete empty g of th huma gall bladder A thy of the re list in twenty four healthy young men a 1 vomen she d that the d scharge of bis from the g ill bladder is a termitet a and that the 1 st cont action phase s the most important. The land g ill bill lifer is somewhat smaller that the mile I empt es fa ter After the ingest of old the state of the state o

For ref t the theo that the decre se in the amount fible the gill bladde after meal i due t the c neemt tion of the bile thin the viscus it is easy to be to point to the speed with high the the lume of the human gall blad ler may be reduced.

It has b repeatedly hown by sever l 1 st gators that vpulsion of bile from the g li bladder ca le n'iuced experimentally chen all f ce e cept the act on of the muscle tu ic ha e The mu cle tunic of the gall been ehm ate i bladder exhib t all of the common physological characte stes f sm oth muscle including the puls on f the c ntents of the gall bladder has been not lalo in e pon e to frug having a effect a smo th muscle t ad e al n d to th f d Wh take found that when the all of the g Il lladder damaged by sque z g it i th p port o to clamp the vi u fuled to empty the amo tof the nju )

By dn conclude that m the cat dg g mean an ana bile epiled pinarily by the cate a trait of fore f the muscle tun cof the g libla let. He sites the tith cerect the numer late pobl m of the futue libe to determin the mech mb which the gail bladder mu culature act wated and h the flo of bile from the comm a d tis egulated.

In a supplementary note the author refe s to the well. I live demonstrating that evacuation of the wall bladder: the dog may be caused by int a ensus injection of a highly perfield secret. This observation is semistoprove that after the 1 gest on

of food contraction of the gall bladder is sustained by a humoral mechanism originating in the mucosa of the small intestine

The article contains several cholecystograms photomicrographs and graphs and is supplemented by an extensive bibliography

JIRANE DOUGHTY MD

Dick B M and Wallace V C H Cholecystog raphy Toxic Effects of the Dyes A Chinleal and Experimental Study Bril J Surg 1928 vs 360

The object of this communication is to record certain toxic effects of sodium tetra iodophenolph thalein which have not been observed previously and to review experimental investigations of the drug. To show the toxic effects three clinical cases are presented.

The first case was one of acute hemorrhagic pan creatitis which followed immediately after an intra venous injection of the drug. The pritent died at operation. The dose given in this case 5.5 gm was in excess of that recommended by Grabium.

In the second case the administration of the drug

was followed by jaundice

In third case that of a young jaundiced patient death occurred within thirty hours after the oral

administration of the sodium salt

In the authors experimental study which was carried out upon cats and rabbits the attempt was made to reproduce as far as possible the conditions obtaining in the human subject. Particular attention was paid to (1) the action of the drug on the pancreas (2) the action of the drug upon the liver and the kindney in experimental common duct obstruction and (3) the mode and rate of excretion of the drug in conditions of bilary obstruction

In the absence of other contributory factors normal bile containing sodium tetra iodophenolph thalein introduced experimentally into the pan creatic ducts is sufficient to cause acute pancreatitis. It therefore seems justifiable to assume that in cases of choleithnasis with stones in the common bile duct in which conditions are favorable for the retrojection of bile into the pancreas the danger of acute pancreatitis will be much greater if the regurgitated bile contains the phenolphthalein salt.

In obstructive paundice the normal route of climination of the drug is unavailable and small quantities are excreted in the pancreatic juice. In animals with experimental biliary obstruction especially rabbits the pancreas showed pathological changes ranging from simple vascular congestion to himmorrhagic pancreatitis. This observation suggests that there is risk of damage to the pancreas in the administration of the agent to patients who are paundiced and who have chronic obstructive lesions of the bihary passares.

The toxic action of the drug on the liver is greater when biliary obstruction is present. The lidney although it eliminates the drug is not affected. The

rate of excretion is rather slow

HERMAN H HUBER M D

Kirklin B R Caylor H D and Bollman J L The Concentration of Cholecystographic Medin and Bilirubin by the Gall Bladder Radiology 19 7 1x 463

Since the shadow obtained by cholecystography is the result of concentration of the opaque medium by the gall bladder a study was undertaken to determine whether any relation exists between the intensity of the shadow and the concentration of bibrubun

The material consisted of 113 cases representing a wide variety of gall bladder diseases. In each in stance the patient was examined by cholecystography prior to operation the gall bladder then being removed and examined microscopically and the bilirubin content determined

Contrary to expectations no constant relation seemed to exist between the intensity of the shadow of the gall bladder and the concentration of bill rubin. In the group of cases with a bilirubin content of 10 mgm or less for each 100 c c m of bile no shadow of the gall bladder was seen in the roent genograms. In the intermediate group with a bilirubin concentration of 11 to 50 mgm the cholecy stographic responses varied heterogeneously from a dense shadow to none at all. Most suprising, was the fact that in the group of cases with a pig ment content of more than 50 mgm the gall bladder seldom produced a shadow.

# Wilkie A L The Bacteriology of Cholecystitis A Clinical and Experimental Study Br l J S g 19 8 xv 450

In the vast majority of cases of chronic chole cystitis in the human subject the bile is sterile on culture

In the author's studies cultures of the whole thickness of the gall bladder will most frequently showed no growth while cultures made from the submucous and outer coats the mucosa being left intact gase a growth of streptococci in 4 per cert of cases

Bile inhibited the growth of the streptococcus

In cholecystitis the cystic gland yielded a growth of streptococcus in 86 per cent of cases Bacillus colt was recovered from the bile in only 6 per cent. In the one case in which this organism was recovered from the cystic gland contamination by bile could not be eveluded.

The streptococcus of cholecystitis is a short chained type producing smooth non-hæmolytic colonies on agar and growing readily on glucose broth Injections of saline suspension of this organ is me into the lumen of the gall bladder of the rabbit produced no change

Intramural injections of streptococci into the gall bladder of the rabbit produced a progressive chronic cholecystitis from which the organism was readily recoverable

When the eystic duct was ligated intramural in jections produced a chronic empyema with marked intramural changes

Small cal ult wr produced by both types of it amural nj ctto Whn the cysti luct w lgat d the c lcuh tai d alc um i l holes t rin whn the y t c d ct patent they c n tand chol t rin mlb.

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Spato fth gall bladd rfrm the lrith intepolat fth om tum t lule aft n by hymphys alfom the mall gut n fth cytic dutdintp tth lipm nt fholessit hn tept c my time.

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Ho e r se Îcac fch lnış t follo g cholecyst nierost m ba been ep rted Ac e of Ric l a ep tcl b N Uchau an la sımıl c e rep t l b H Herich keh I s repo tel a cae an 18 u chha po ted t o cae I botho fch cases rep t d b N kau ch ente b t een the u t of the jejun 11 ops we e done but faled to ob ate the occurrence of chola gettis Therefore as an added precaution in cases of pracreating to operable carcinoma of the pancreas kausch ad ocates a Yanastomo i with a slight modification of Montproft's and Chol is methods

Wangensteen reports a case m which a chole to tluodeno ton was do e h cause of mal goarcy of the head of the pane eas cau ing obstruct; e jauni Ic The patient's a greatly be effect by the op ation but returned eight month later comp in mig of chill and feve a d abdoma lad na At e longeration a catheter was inserted a da nhored in the hepati luct The fever then subide! In the tept in the experience! considerable elief but after to oun ucce sful attempts had been made to a tomose the hepatic duct to the duo de um be de dof per founts.

When the gall bid le a id the stomach or duo de um are unit d'in the dog infection of the bile pi age neal à al vales place. When an tern I bili rv fi tula i established by the spon an ous rupture of the d'e aeset gall bladder i to the net thal t ct Charcots syndrome of chil a die era companic l'b) you directuet a ce dig fect of the et h pat c bile passage frequently follo juli i l'Bu de hvve re ently reported a eres f I 3 inte I bilia y fistulæ requing op rati e retlef

Complete b truct on of the common bile duts by c c nome at the head of the pancreas usually gt e rt e to an af brile jaundice. When the ob st uction has been incomplete he ever choic get is ha not i freque tive de cloped. It suppers that in omplete obst uction is the factor fa or g fettin.

Giff n Il Z Spl n etomy S g Gy c & Ob!

The p ence th splene tomy at the Myo Cl 1 t dup to Ja u v r 197 Spleet comy, in the follon ng cond t ns 1 d cussed in s m dt 1 sr 1 nc a zemia ch nc s pite splen megal h sr for the supplifict splenomeg in hzmolyt Jau die p neiou anemia myeloge out t Jau die p neiou anemia myeloge out en megal polycytham s e a hremorthige p pua and seute aplastic

The b t ults ce obtain d in cases of ham r th g c p pu a hemolytic ja ndic and vphiltic spl mgli In hæmolytic jaund c a d hæmor rh g c p pu a the d cation for spl nectomy d pe d'almo t nti ly upon a at fa to y d'ag In the condit o s the deci to m t be ahdb a sil ration f th facto s and cir umstanc 1 the particular case. The esult in es of spl nie anam a vere variable a d depended the pat ent the diffi ults of the oper t befl co lun nd th fn tin f th l er but were such as to ju tify the op atto unless the e is a hit v fs e recurr nts ps sor m ked imp ir ment I functio of the liver

# GYNECOLOGY

### UTERUS

els F M Electrodiathermy—Its Use in the Treatment of Benign and Malignant Lesions Mikels F M of the Uterine Cervix California & Best Med 1028 AVVIII 6

As the uterine cervix is the portal for the per petuation and preservation of the species its treat ment should be based upon the principles of con In the use of electrodiathermy this servatism

premise is recognized

The D Arsonval current a form of high fre quency is most satisfactory. By means of it desiccation coagulation or carbonization of tissue may be obtained depending upon the extent of the lesion The author reports gratifying results from diathermy in the treatment of endocervicitis mucous polyps and cervical erosions The method may be used also for the eradication of deep and persistent gonococcal infection of the glands. In cervical malignancy the lesions should be thor oughly electrocoagulated and this treatment fol lowed immediately by adequate radium irradiation and subsequently by deep \ ray therapy Focal infections of the cervix which may lead to com plications after delivery can be destroyed by dia thermy during pregnancy without interfering in any way with the process of gestation

ALICE I MAXWELL M D

Palmer A C The age Incidence of Caremoma Corports Uters Proc Roy Soc Med I and 1928 14 367

In the study here reported only primary cancer of the body of the uterus was considered Chorion carcinoma and carcinoma which involved the cervix also were not included

Of all cases of cancer of the uterus admitted to the hospital Palmer finds the corous to be the site

of the lesion in 26 65 per cent

Of 250 cases of carcinoma of the body of the uterus the condition developed between the ages of fifty and sixty years in 524 per cent between the ages of sixty and seventy in 224 per cent be tween the ages of forty and fifty in 10 6 per cent between the ages of thirty and forty in 2 per cent and before the age of twenty in only 04 per cent There were no patients between the ages of twenty NATHAN N CROHN M D and thirty years

Fluhmann C F Epidermidalization of the Cer vix Uters and Its Relation to Mahanancy 1m J Obst & Gv c 10 8 x 1

The author uses the term epidermidalization to de ignate the process by which the normal cylin drical epithelium of the cervix is replaced by

This alteration stratified squamous epithelium has been attributed to (1) an ingrowth of basal cells from the adjacent normal squamous epithe hum (2) the proliferation of basal cell rests be neath the cylindrical epithelium to replace the eroded or weakened columnar cells (3) the meta plasia of infra epithelial cells (4) the direct implan tation of squamous epithelium and (5) undiffer entiated embryonic cells which mature under pathological stimulation

It occurred in 59 instances of chronic cervicitis found in a series of 1 195 specimens of the cervix and in 29 of 100 cervical mucous polypi It was noted also in ecryices of the newborn and in

endometrium

At times the process may lead to the formation of atypical epithelial growths which may be termed epidermoidalization Careful study of serial sections and repeated biopsies may be necessary to differentiate these findings from early carcinoma In rare instances malignancy can be excluded but certain features are present which may be con It is not certain that these sidered precancerous represent transitions from a benign to a malignant growth and there is reason to believe that most of them would probably prove harmless

ALICE F MAXWELL M D

Dustin A P A New Contribution to the Radio biological Study of Epitheliomata of the Uter me Cervix Subjected to Radium Therapy at a Distance (Telecurietherapy) the Curves of Pyknoses and of Normal and Atypical Mitoses (Nouvelle contribution à l'étude radiobiologique des epithéhomas du col utérin soumi à la télécune thérapie les courbe de picno es de mitoses nor males et de mitoses atypiques) Ca er 19 7 iv

Dustin outlines briefly the problems of radio biology calling attention to the fact that the whole question of the effect of irradiation on normal as well as tumor tissue is still in a somewhat chaotic state The sensibility of cells in the process of karyo kinesis is well known but the practical application of this knowledge is difficult. With regard to latency cumulation and radio immunization a great deal still remains to be learned

In co operation with several surgeons the author studied numerous sections taken from epitheliomata of the cervix undergoing irradiation. A series of six cases were thus studied. In one case, the changes occurring during a recurrence and subsequent irradi ation were also observed

The treatment consisted in telecurietherapy (irra diation with radium at a distance) Four grams of radium element were placed at a distance of 1 cm from the skin and filtered through 1 mm of platinum

5 mm of aluminum and 4 cm of vood From six to ten exposures w re giv n daily for from nine to fifteen days the each e posure 5 mc and on each day of the tr atment f om 150 to 250 mc were used

I the m n th tumors rat dismilarly to irradiation but n merous varat s cented s meof the neoplasm equiting a much g at r dos than other storeach the am stag. The reaction hived the phases I the first phase the ewal the stage of the reaction hived main toses with an nease: then mber of pylonote nu lei. In three cases the drop occurred on the fifth s this attractors of the domestic than the stage of the sta

1 anoth re se aft thee days following a do ag

In the second phase there a a mo e or 1 ss rapid and ust and ein the number of a typ alm to s. This s as a table beging at a x t me b t e the call a d fifth days of tr atment a d e ching at maximum after from to t e ght d s

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In the diphase the stage of his tolis a normal mose een artic entirely been and the case a apid deel in the aspial mose. In one case the finings renot don the seed day but in the the ver of appar number the level than Drig the stage many cellular min into tesape.

neare l'

In the cas which a se ond radiation as nece tated by rur ic h tolo i le anniation before the se of d ation eveal d that although de pi th setion the tisse sho od the flects of irradiation the ell on the surface q ite un differe tated and ut d goi g ap dim toss M tosse ere fet mes a abundant and a type lam toss.

ere tent mes a abundant a befo e a 'y treatment D'r g th see nd posure to adi m the tumo r acted t hid at the tim of the fir t expo u e though not so mark dly Alth ugh the atypic I mit ses were educed i number there re several re rudescence du une the teatment

Dustin r vi w b efly the work f Lacasagne nd

Monod Schwartz Ub rti nd Pol tzer Clunet and Domn ci and de des that the es nt af demonstr i of ther n t gations we the ens ti enes f m tot c cell to irrad ation and the appea ance of degenerat v atypical mitosis. He believes that h s are the fir t tissue studies made during telecurethe app. He discusses the efficacy of this method of treatment and describes an accurate method of measuring the results.

The disppear nee of normal mitosis and the pylmotic degene tition of nuclei in the pocess of disson
appear to be con tant with nectian I mits regard
fess of the amount of i radiation. The duration of
the changes and the rapidity of return to the previous
condition depend upon the nature of the timen
and the intensity of the trantiment. The appearance
fidege craftive attypical mitoses cannot be preently large doses and continued treatment.
seems to be due to intoxication of the cells in the
po cs so flowistion.

p oc. so of division. The chromat n affected by irrad ation is unable to gie is set to normal mitoses but this effect is not maintained. After a 's hile the cell ir eaquire a nouless they a chilled by the treatment of have been on mapsectated that the normal defense year of the control of t

The tudy of the case of recurrence ho cd that nsufficent irrad at on is dangerous as it is follo cd by an netae la sola et creaction on the p t of th tumor cll. It demonstrated also that a recurre casts to treatment by radium irradiation in the same any as the original temporary.

MICHAELL MASO MD

Polak J O Th Pe nt Status of th Therapy to C neer of the Ut u tm J Ob t & Gy

In cancer of the cer v surg cal e trip tion is ndicatel only hen the go th is wholly with n the of ness f the cervic and the cer 1 is feely mo able. All bord in e and advanced cases fall within the ra go of radium. Rad um dest op the caner cell as ompletely as any surg cal procedure. Nothing spr add scancers on quickly as man p lat on esp calls such occurs when an incomplete extripation don't hrough mal gnant structures.

In ca cer of the body of the uterus p c operat rad at n follo ed by total hyste ectomy with p stop r t ve rad t n is the accepted p ocedure P lak fa ors pre pe attv rad t on from four to si ceks p or to th ope at on

Dagnost cut uses dangerous becaus of the page of the p

Petit R Anglinal Hysterectomy Teclinique and Indications 123 Consecutive Cases without Complications (Lhysterectomic vaguale technique et indications 123 cas consecutis sans accidents) Bull et mém Soc d'chirurgiens de Par

Vaginal hysterectomy has of late years been supplanted by abdominal hysterectomy but when it is performed by a standard technique it is an excellent procedure and possesses certain advantages over the

abdominal operation

In the author's technique for vaginal hysterectomy the vagina is disinfected by douches of '2 per cent tochloring or 11000 oxycyanide of mercury for several days before the operation and a purgative is given three days before the operation

On the operating table the patient is placed in the lithotomy position the field painted with iodine the cervix pulled down and the cervical canal sterilized

with the thermocautery

A curved incision passing through the mucosa is then made on the posterior and anterior walls of the cervix. The two incisions come together at the sides of the cervix and are prolonged upward into the for inces. The scissors are then introduced into the posterior incision close to the uterus and the tissues pushed back until the plane of cleavage between the peritoneum and uterus is found. The space of Douglas is opened with the scissors or the finger a long retractor is placed in the cul de sac and a gauze pack is inserted so as to hold the viscera back. In a similar manner, the uterus is separated anteriorly and a retractor is introduced to hold the bladder forward.

The cervix is then pulled laterally and the tissues in the base of the broad ligament are dis ceted with a compress coverel finger. The uterine artery which is thereby exposed is ligated. After a similar procedure on the right side the uterius is brought down

into the field

If the uterus is small the fundus may be brought out through the vagina anteriorly but if the uterus is large it is carefully divided along the median line the edges of the incision being progressively grasped with forceps and gentle traction being maintained until the organ is delivered. If a large fibroid is encountered it is removed.

The adnexa on the most accessible side are then drawn downward and a ligature is carried around the ovarian ligament by means of a ligature carrying forceps introduced through the broad ligament below the tube. The round ligament is sligated and cut. The broad ligament is then separated with the gauze covered finger from above downward ligatures being

applied wherever necessary

Mer both sides have been thus treated the uterus and tubes are free. If there are adhesions which in terfere with the removal of the tubes they are ligated and removed later. After a careful examination of the area for bleeding the gruze holding back, the intestines is withdrawn and the field is wished with either or warm horse securing.

The peritoneum is then brought into the field of operation by gentle traction on the ligatures in the broad ligament which were left long. The anterior and posterior sheets of the peritoneum are closed the ligatures being kept extraperitoneal. The round ligaments and the broad ligaments are then sutured in the median line a good floor being threby formed to guard against secondary prolapse. Closure should not be done if a pust tube is found. In the presence of a pyssalpinx closure is contra indicated and the culd de sac should be drained.

When the peritoneum is closed gauze packs soaked in horse serum are placed at the base of each broad figament posteriorly against the rectum and anteriorly against the bladder. Between these four packs a drain is placed. A retention catheter is introduced

into the bladder and dressings are applied

The packs are removed after from forty eight to seventy two hours. The drain is expelled spontane ousl. After the fourth day the catheter is removed and two daily injections of normal salt solution are given into the vagina. The patient is out of bed on the seventh day. The treatment is completed by several injections of a 1:000 silver nitrate clutton II exuberant granulations are present they are touched up with lunar caustic.

The author does not claim that the operation de scribed is entirely original. He states that he made use of many other techniques adding here and there an original modification. He stresses particularly the extraperitoneal placing of the sutures in the

broad ligament

The advantages of the technique described are that hemostasis is perfect necrosis is practically done away with there are no clamps no forceps are left projecting from the vagina the intestines ure ters and omentum are always isolated and out of the way the pertitioneum is closed and the ligatures in the broad ligament lie below it adhesions do not occur the postoperative course is smooth and pain less the exposure is excellent the ovaries may be preserved adhesions may be dealt with shock is minimal there is no external service and no danger of eventration and the operation is shorter than the abdominal hysterectomy

In the 123 cases in which this operation was per formed there were no postoperative deaths. Most of the patients were up on the seventh day. One patient developed a bilateral phlebitis but was out of bed at the end of a month. Lacept for cases of malignancy a cure was obtained in every instance. There were seventy five cases of fibroma seventeen of fibroma with non suppurative disease of the adnexal eleven of fibroma with suppurative disease of the runevaluation of prodapse eight of carennoma of the cervix and

eight of carcinoma of the fundus

The author regards vaginal hysterectomy as the operation of choice for old women women whose resistance is low those exhausted by hemorrhage and those with disease of the adnexa. It is of value also for the removal of fibromata which are situated at the base of the uterus and are not too large and

for the treatment of total prolapse after the meno paus

It s contra indicate I in the presence of fib oids which re too lag to be brought down athout m cellat on and n th p esenc of mult ple abdoms al adhesions sp ally bety een the all eva and th append v Myomect m s done bette th ough the

abdomin l rout

Of the sixteen vom n with m lignant n oplasms who er p rated upon by Pet t all ur ved th pr tion vithout shock. One as operated upon o t r cently a d ne ded fa inte cur ent cond tion Of the r mai ng fourteen si ded f om s en te n to th rty months afte the operat on f om re cu en e or n eta ta s In the ight cas s of carci oma of the body of the ut rus there vet taths di the ight case of c moma of th ev thr rfu leaths

MC VELL M S V M D

### ADNEYAL AND PERIUTERINE CONDITIONS

Rub n I C Observ t ons on the Intramural and Isthm P tion of the F lloplan Tub's ti Sp cal Refe ene to So C Hed Ist! mo pa m B sed n Clin I \ Ray Lip odol Study and Ut rotubal In ufflat on in Fifty C sof Tub 1 Occlus n S & & 05 1 9 8 vl

assum d that the arrowest p to of Ith b the o lu t may b cel de l readily by i flamma ton a ditautiet mors temporar hobiter at 1 by ute otul al pa m Roentg nogram made of 1 ject 1 t pate spec me s futerus and tubes he eld som n est g to s to co lud that the in tr mural po tion e tort ous ngular a d c n lut d th m jo its of cases du ng l fe and that these finds g h d a d ct bea s g pon ste lits The author man t n that the picture of the nt

mural po t f the f llopian tubes obtain d n tb I ving are trly diff out fr n thos fou dafte death As point do t by Dickinson the t reuosit in the ni t d sp cimen may be d to a t ficial con I tons uch aspr u pon the sp mener t d

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ided oentgenolog llva df n t nally nto an ro poumal uten e prton a d vile d stal abl mn l po ton I stalt co t ton ppe r tob mepocful at the thmicp ton In study of the tube m l by R b n and Bendick th

isthmus as demonstrated in every instance in which the t be had not been pre ously removed by oper atio or as not bliterated by disea e Non v u all tion may be due merely to a tempo ary state of contr cti the pulsion of the tubal contents it d es ot i di te isthmosp sm The necessity f ran init al h gb pr su in ert n cas s of peruteri e n ufflat on may be e pla n d by augmented to ic ts

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t a t ng and 11 t ng l ke a true sphinct r Th utbo n lud hi a ti le a foll ws

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D ton W E nd Othe s D cus I nonth At n and U e of O ar n Extracts B 1 11 J 97

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The crous I teum ex rt a cont ill ng action o a an fun to It is fu ct on al t ly one period in its cycle the degenerated corpus luteum is inactive. Cases of habitual abortion have been very successfully treated with corpus luteum extracts.

The interstitial hormone causes a secretion of the posterior lobe of the pituitary gland which renders the uterus supersensitive and highly responsive to other forms of stimulation. That the pituitary gland has a relation to pregnancy is shown by its greater weight in women who have borne children as compared with nullipare. The interstitial hormone is liberated during only one stage of the ovarian cycle that of degeneration of the corporative and the conference of the present in the ovary just previous to parturation and just before the heat periods. Mayer states that during labor the cere brospinal fluid contains the active principle of the pituitary responsible for the production of uterine contractions.

During the periods of heat and during pregnancy the corpus luteum so dominates ovarian metabolism that the ovarian secretion which at other times activates the pituitary is inhibited or neutralized by the secretion coming from the corpus luteum. At the termination of pregnancy, the normal secretory activity is again produced and the pituitary gland is stimulated to secrete in greater quantity this explaining the increased urritability of the uterus and the occurrence of labor.

MAGNUS P URNES M D

# Hunt \ C and Simon H E Carcinoma of the Otary in Infancy in S g 19 8 ixxx 84

The case of a girl seventeen months of age is reported. One month previous to the patient's admission to the hospital a blood tinged vaginal discharge was noted. This lasted only a few days. Two weeks later a mass was found in the lower part of the abdomen.

Except in size the child's development corresponded to that of puberty. The breasts and extranal generalia were well developed and there was a firm growth of hair in the axiller and on the Inbia A slight blood tanged vaginal discharge was present V large smooth freely movable mass occupied the lower part of the abdomen. At operation the tumor was found to have its origin in the right over. There was no evidence of metastriss and the uterus and opposite ovary appeared normal. Following its removal the tumor was found to weight 1000 gm and to me sure 11 by 15 cm. It was diagnosed as a ear cinomo of the ovary.

The special symptoms associated with overing carcinomy and with other type of overan tumor in children are those of pubertas pracox. This is true homosexual precocity the breasts and external gentalia develop and changes in fat distribution occur over the body in a manner similar to that which is normal at puberts. Simple cyst dermoid cyst territoma sarcomy and carcinomy of the ovary have been observed in a sociation with pubertas pracox and there are no character tic climarel data upon and there are no character tic climarel data upon

which a differential diagnosis can be based. The evidence at present is not sufficient to justify the removal of an apparently normal ovary from a child if the other ovary contains a maligning tumor Neither is it sufficient to warrant an opinion as to the ultimate prognosis.

### MISCELLANEOUS

# Meaker S R A Working Classification of the Causes of Sterlity J Am M A s 19 8 vc 111

Since there are six major requisites of fertility the causes of sterility fall naturally into six main groups. The latter are shown by the author in a chart

Many atterine abnormalities not in themselves causes of sterility are associated with conditions in other parts of the genital tract which render conception impossible. For example, pregnancy fails to occur in the infantile uterus not because it is an infantile uterus but because the infantile ovaries do not ovulate.

Failure of the semen to be delivered directly into the cervical canal usually results in failure of pregnancy

All grades and degrees of fertility are known Chief among the conditions leading to the forma tion of relatively infertile ova or spermatozoa are gonad underdevelopment depressed constitutional states and endocrine failure

Gros underdevelopment is common in the gen erative organs of the female but not in those of the male Many women show juvenilism

Most frequent among the depressed constitutional states are the defects of metabolism due to extrinsic cau es such as faulty diet and lack of exercise

In sterile women the primary focus of endocrine failure is located more often in the pituitary and thyroid glands than in the ovary

Successful treatment of sterility must be preceded by a thorough and systematic investigation in which every possibility is taken into consideration. The acceptance of the first discovered abnormality as the cause of the condition has led to many therapeutic blunders. T LOYD BELL W.D.

# Robins S A Cystography as an Aid to the Diagnosis of Lelvic Lesions in the Female 1m J R entg not 1927 x m 546

Various abnormal densities in the soft tissues of the pelvis frequently noted in roentgenogy ms prompted the author to make a study of the female pelvis utilizing the cystographic method as a diagnostic and Over 300 cystograms of patients with various pelvie disorders were made. The following conditions produced characteristic changes in the bladder outline. (1) uterine fibroids (2) displacement of a large and atonic uterus (3) cysts (4) tumors of the broad lignments (5) adhesions (6) milignines of the uterus tubes or ovaries (7) hydrosalpinx (3) pelvie ab ces. (6) pregnancy and (10) ascite

Definite inform at on v as obtained all o with regard to the size shape and tonicity of the bladder The cardinal gas of pelvic tumos are pressure

The Cartinal gas of perive tumo's are pressure defects a regularity of contour and filing defects of the bladder. Letrane tumors and preguancy produce typical crescentic pressure on the dome of the bladder. I ressure the created by tubes an board ligame trace usually see on its lateral vall. A strain ht pressure defect is suggests to of inflamma to y changes has cites the shape of the bladder is puddiated. When yer is redefect to the pressure defect is suggests to display the product of the pressure defect is suggests to display the product of the pressure defects of the pres

b is Iregula to an the cont ur of the bladle usually lue to all ions. The shipe of the bladde vanc o lerably. The nimul bladder appear as a py amil lirrild moothly out lined gan in the enter of the loc pelvis. The hypertonic type if bladliss rou ld and mall

Ithough s m t mes its capacity may rach 40 cm. The atonic bladder bro d t b se de ed and it h the upp a ance f an in ted mushroom. The tubul r bladde u u lly of large

capacity

The technique of vaminat on used by the author

s de cribed 1 d tal \ 1 flm s male h n the

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thdrawn \umero s o tge ograms illu t atin the liffere t conditi found r nclude l in the article \umedatl{\text{lf}} \umerbm{M} \umedatl{\text{D}}

Schlink II H Pel ic I smphangit s o tle Rôle f tle Lympl tc n Pelv Inflamm tion M d J 1 t l 9 7 S pp 4 438

The author for the detail button of the lymphatic nethod for leading to the detail policy of the pecal control of the lymphatic nethod for leading to the pecal control of the lymphatic nethod for leading to the large state of the large state

le atton f the mitte anatomy of the lympbatif the ut us. He tates that the ginl principles inderlying bateril lymasion f the female plye organ a esimilar purper land no puerpe al infections (expt the time the form it the constitution) and fetted hereast the latter tis the cervil his

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cavity are menstruation physical overactivity exce ve course curettage conditions prod on pelv c hype arms and the puerpersum. The particular site attacked depends upon three factors (1) the ristance of the antitoxic mechanism of the host (1) the number and virulence of the imadian organ sms and (3) the direction in which and the rapidity with which the organisms are carried along the 1 mps do not be successful to the control of the course of the

The just r is of the opinion that the invasion occurs by way of the utenne ca ty in acute ful minding infections who he result in general pen tonitis or prosalpi gits and by vay of the lymphatic callation especially in chome a d sub-acute infections

With right do the teatment of pelvicinfections. Schink divises (1) the aba doom it of antisepte ling paint g and c reft ge (2) improvement of the general health a d avidance of ondition point nerve if olding of the pelvice or gans (3) I que thot douches and is to baths (4) the u e of vail tampons of gly er ne and iod ne (5) general teitm in with vines and (6) cnucleation of the cervise henoth teatment fall.

MAGNISP U F MD

Batl 1 mj Fb ous P lvlc Pe itonitis (Le p t i fb c p l c ) B ll S d b i i d & d P 0 7 53

The a th r c lis attent on to a fibrous pel re tonitis I call 2d in the adne a not involving ille intext e (c c pt the app ndi. in o e case) nor the m se tern a d apperring in yon g nullipa o s om a v thout a suggestive histy. In all of the cise c cweed t was the citoderitio while attacted in attention of the examiner the adne all r gion being practically negative to pall ton Minual r plu ement was possibe but as it was painful and not permanent operation.

As apparent that the retrodevation was seconds; to an agglutantive process which had c us d a po terior not tion of various pa ts of the aine a. The tub s we c uniformly involved at the ampulla end by a poccess of chron c inflammat n with side os and obliteration of the tubal lumina. In every was an attempt was made at operation t reestable he pain you for the tubes.

The stak g featu s f the condition are the definitely is clized ar as f per to it is with apparently econly retroduction

G C C SCHAUTF M D

# OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

Kadjar M K The Study of the Placental Circulation in Multiple Pregnancies by the Stereo roentgenographic Method (Contribution a Letudde la c realation placentaire dans la grossesse multiple par la methode stér oradiographique) Gynelog & 027 XX 1 440.

The author states that the radiostereoscopic method is indispensable in the study of the placental circulation as it permits the certain recognition of the deep anastomoses. By the use of this method anastomoses mean perhaps be found quite often in byitellin prenancies.

ALBERT F DEGROAT MD

Walker A A Case of Rupture of the Uterus After a Previous Crestrean Section Proc Roy Soc Med Lond 19 8 xx1 365

The author reports a case of uterine rupture in approximately the thirty minth week of pregnancy eighteen months after a cosairean section. The sequence of events which led up to the rupture were apparently as follows

r A portion of the sear of the original cæsarean section healed with intervention of fibrous tissue

2 When the uterus hypertrophied during the second pregnancy the scar tissue was stretched until it became thin

3 When labor began this thin area was pulled upon by the contracting uterine muscle in all directions until it gave way slowly at the center https://www.mdd.

Dougal D The Chincal Features of Ectopic Ireginancy Brit W J 927 11 1074

Dougal reviews the clinical features of ectopic pregnancy in the roo cases. The chief predisposing cause of the condition is a pelvic infection which obstructs or delays the passage of the fertilized ovum to the uterine cavity. Other factors of importance are developmental abnormalities. One third of the patients whose cases are reviewed had not had a previous uterine pregnancy.

The combination of the cardinal symptoms of amenorrhea irregular uterine hæmorrhage and abdominal pain was found in 6 of 10 eases. In the acute cases a rather constant symptom is shoulder pain due to hemorrhage into the peritoneal cavity. The abdominal pain varies from a coheky pain associated with the unruptured tube to an acute lancinating pain occurring at the time of tubal curpture.

If the physical signs are not conclusive examina tion under nitrous oxide anæsthesia should be con sidered. The condition must be differentiated from appendictus threatened uterine abortion inflam matory tubal swellings and small ovarian and broad ligament cysts

Immediate laparotomy is advocated except in cases of profound shock. The gravid tube should be removed but not the other tube

Because of early diagnosis and operative intervention there were no deaths in the 100 cases reviewed Magnes P Urnis M D

Lacouture J and Massé I A Child Two and a Half Years Old Born of an Ectople Prefinancy (Pr sentation d un ectopin agé de 2 ans 1/2) Bill Soc dobst et d. gante de Pr 92 x 1 666

Not many children born of ectopic pregnancies survive Of 303 such children whose cases were reviewed by Baronnet 58 per cent died within the first twenty four hours after birth only 13 per cent lived to be more than five years of age and one third were mailformed

The child discussed by the authors a girl weighed 450 gm at birth. Her only malformation is a considerable assumetry of the face. She is at present normal in height weight and mentality and there has been no retardation of dentition or walking.

there has been no retardation of dentition or walking Harris is quoted as stating that if a child born of an ectopic pregnancy lives as long as a month it will probably continue to survive

AUDREA ( MORGAN M D

Walker A Diabetes Mellitus and Pregnancy Proc Roy S c M d Lond 1928 vxi 377

Walker states that while diabetes must be regarded as a serious complication of pregnancy, there seems to be no reason for terminating the pregnancy or for the belief that the child will not be born alive if the patient is treated with insulin and properly dieted Puerperal complications occur no more frequently and the pregnancy does not appear to have any ill effects upon the distensive the property of the pregnancy does not appear to have any ill effects upon the distensive the property of the pregnancy does not appear to have any ill effects upon the distensive the property of the present that the property of the present that the present that the present the present the present that the present that the present that the present the present that the present the present that the present the present the present that the present that the present the pres

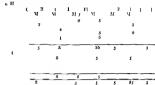
### LABOR AND ITS COMPLICATIONS

Balley II and Williamson II G Trial Labor as a Procedure in the Treatment of Patients with Contracted Pelves J At II 111 19 7 lxxix 208

Maxwell A F A Study of Labor in Contracted Pelves J 1: 11 11: 19 7 IXXXIX 2088

BALLEY and WILLIAMSON report that in 11.401 dehvenes in the Cornell teaching service at Bellevue Hospital and the Berwind Clinic during the last five years pelvic contraction was found in 676 cases (§ 9 per een!) With the exception of 5 cases of

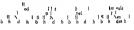
# TABLE I -TAPES OF PELVIC CONTRACTION



# TABLE H - FYPLS OF DELIVERY



# TABLE HE -SHELBIRTHS AND NEONATAL DEATHS



# TABLE IN - VERTHOD OF DELIVERY IN 240 CASES OF CONTRACTED PERMS



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In the 6 6 ca e re ed tallab ed ed the

were no leatis i m th procedure. The mat n i mortality in the e tire series if cases as 044 p i cent the gro fet im tality 62 per cent a lithe

net fetal mort lity 4 4 per cent

The type f pel icc tract o and lelive y and
the tillb rth and ne natal de th are h

Table I II nd III

Maxwell his made a analy of the effect f
p like co tract ons on the outcome of labor in 6 500
c es f delive y in the Ob tetrical Department of

the Universal Cal forma Hospital

C nt actel p lvis s nfreq e t in the cline oc cur g in only 30 p cent of cases but when p esents riou is increases the ha ard of pa turito lhe I ge sze of the babe t term (average 3 478 gm) i cre e the cepl lop I ed p p ton The authors su v y ho s that one of e e y ti ome

th a small pel s is a potential cand date for

TABLE V -RELATION BETWEEN THE TYPE OF
DELIVERY AND THE MORTALITY

operative delivery. Therefore every patient should be given detailed instructions as to the proper hygiene of the birth canal in the last month of

pregnancy

Maxwell emphasizes the importance of realizing that test by labor has vaguely defined time limits The true test begins only when the cervix is completely dilated This test is a test of accomplish ment and should not be prolonged beyond the limits of the patient's endurance Cervical rigidity weak infrequent uterine contractions and occiput poste rior presentations prolong labor weaken the woman's power of resistance and cause exhaustion before the value of the trial by labor can be determined A tremendous fetal and a considerable maternal mor tality will result from the use of high forceps. This procedure should therefore be discarded. However because the author's review extends back for more than ten years this was in many instances the only method possible when maternal exhaustion compelled delivery

More recently the advantages of low cerviced section in the cases of potentially infected women have been emphasized and experience in a few cases justifies its adoption. The present policy in the management of contracted pelvis in the University of California Medical School is conservative. The pratient is allowed to go into natural labor the progress of labor is determined by rectal examina tions only and in the event of unsatisfactory progress the child is delivered by a low cervical section.

The method of delivery in 4x cases of contracted pelvis is given in Table IV and the relation of the type of delivery to the mortality is shown in Table V ROLND S CRON M D

Huntington J I Irving F C and kellogg F S

Abdominal Reposition in Acute Inversion of the Puerperal Uterus 11 J Obst & Gance 9 8 34

This article reports five cases of inversion of the uterus occurring immediately after defivery. All were treated by abdominal operation. Recovery resulted in every instance.

In the technique use I by the authors the abdomen i opened by a low median incision. If there is complete inversion, the uterus is absent from the pelvis and there is a crater in the region of the cervix into which the tubes round ligaments and occasionally one or both overies have been drawn. The

operator and his assistant are both armed with two Allis forceps. Each inserts one of his forceps into the crater for about an inch and grasps the surface of the uterus on his side. Both draw upward simul taneously pulling a portion of the uterus out of the ring and restoring it to the peritoneal cavity Steadying the uterus by the forceps already applied the operators then insert their second forceps into the crater for about the same distance as before and again grasp the sides of the uterus and pull upward Flus by successive bites and upward traction the uterus is gradually restored to its normal position. Whist T WOLLMER W DOLLMER WID

Grimault L Ion Cassarean Section by the Extra peritoneal Route Following Rupture of the Alembranes with Infection ((c) ariente base ocul ou ert et infecté temp sept que extra péritoneal) Bull Soc d'ob t'et d'gynée d'Par

The author reports three cases in which he per formed a low casarean section following rupture of the membranes with infection. In his technique for infected cases the peritoneal cui de ac is separated from the bladder by a horizontal inner ion in the cell lular tissue which unites them. The peritoneal cui de sac is then slit vertically so as to give free access to the lower segment of the uterus and the parietal and visceral folds are sutured together so that in stead of one horizontal cui de sac there are two ver tical cuis de sac and the peritoneum is closed before the uterus is opened. For clean cases, Grimault prefers the classeal cassarean section.

AUDREY G MORGAN M D

### NEWBORN

Growther W. L. llæmorrhage of the Newborn 3fed J. lustralia 19 7 ii 873

Hamorrhage of the newborn may be due to trauma from instrumental delivery or the natural forces of labor pathological conditions such as congenital syphilis duodenal or gistric ulcer or sepsis neonatorum or the hamorrhagic diathesis

(idiopathic hæmorrhage)

The groups of cases can be differentiated by noting the bleeding and coagulation times If both are normal the hamorrhagic diathesis is excluded The bleeding time as determined by the puncture method of Rodda should range from two to five minutes In idiopathic hamorrhage the oozing may continue for hours or even days The coagulation time is normally from five to ten minutes. In idio pathic bemorrhage it ranges from thirty to ninety minutes The hamorrhagic diathesis of the newborn is due to some grave alteration of the blood formula which changes the blood coagulation. I roof of this lies in the fact that the subcutaneous introduction of from 5 to 10 c cm of whole adult blood will con trol the hamorrhage and cause a coincident return to normal of the bleeding and coagulation time

ALICE I MAXMELL MD

Sci weize F Complete Obstetric I Paralysis of the R gt Brachial I lexus and the Right I n ic Nerve in n Infant Two and One Half M nths Old (Pa 5) s b tet mpl t pl v l b q 1 d h y p 5d d 1f d ch I t t d me 1 d d) Sc méd 9 7 oS

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AR (M MD

### MISCELLANEOUS

B ker S J Ti Mat nal Mo tai ty n ti United St tes 7 1 M 1 ) 1 6

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Torty per cent of th material deaths are due to pureps al infection 7 p c nt to pu pe al albuminu ia a d n l ion 3 pe cent to the accidents of pegn cc of ding ab tion ectope perganacy puerpe 1 hæmo hag emboli m pue perif phlegmas a alby tole s and ce tri ill dinenes de sea and oper cent to i strum t 1 d livenes d's gir l'p cedures such s ce ar a se ton

A compa on f th numbe of biths n the case of wom n c ed f r bi phy is n and mit it es with the tot im ter ald ath in the ame goog aph cal are no eith t the mid if i not a dominant fact i the p ent b gh maternal mortality rate

To reduce the maternal mortality rate the author proposes more hospital zation of confinement cases in order to eliminate puerperal septiment and assure safety in operative procedures bette training of medical students in the scene of obtetire the oporting of all cases of puerper 1 tickmia and 1 et ens on of facilities for pre at 1 care and supervision 1 vanal x 1 B xtd. MD

With the cope tion of the members of the mel cal pole soon to province a unthor test and the Dom no Bureu of Statt ties the Mini tero il afth of Canada ma te an inquiry, into the mater nal mort lit's n Canada in the pe odd fom Dominon Dav 1936 As the result of this is estigation there are now on file 1 room file all return—ecorl of the daths of all women between fifteen and fifty vers solage who deal in that was togethe with the name and address of the phy cal or other per on gaing the death earlier in the confederation the vere 13 mate 1 we rot the Confederation the vere 13 mate 1 deaths approximately 6 per 1 cool in 190 ths

The h to es of the 53 mothers ho del h eithat the health of 72, f them a ot good The following conditions were ecold

The cause of de th as g en as eard ae die st on on a est 1 per cent) ps in 4 b f per cent been referent and long many for en 337 (3 per cent) and long und h rd lab r 1 87 (3 per cent) and long und h rd lab r 1 87 (5 per cent) and long und h rd lab r 1 87 (5 per cent) and long und h rd lab r 1 87 (5 per cent) and long und h rd lab r 1 87 (5 per cent) and long und h rd lab r 1 87 (5 per cent) and long und h rd lab r 1 87 (5 per cent) and lab r 1 87

Of the total number of women 349 erc pm px 1 dogs, were multipa æ Fo ceps eru ed n 39 c es (9 per c nt) Fifts a reports ct d hu y the part of the phy c n as the raso I the u e flo ceps other stated th th strum the were emplowed in acco dance in the day hu by the to h fire ds Flutram as u ch 377 ces (2) percee (2) percee (2) a 50 ft ex upure of the uter 5

No doctor was in attendance in 237 cases (15 per cent) This number includes 48 (3 per cent of the total number) in which a midwife was to at tendance In nearly every instance the midwie was untrained and in some of the cases she was directly responsible for the death

Only 230 of the 1 532 patients had prenatal care In 128 cases the doctor was not called until labor

nad begun In 1924 the total number of births in Canada was over 244 000 and 38 634 (16 per cent) occurred ROLAND S CRON M D in hospitals

MacDowell E C and Lord E M Reproduction in Alcoholic Mice I Treated Females A Study of the Influence of Alcohol on Ovarian Activity Prenatal Mortality and Sex Ratio (Fortpfinzung alkohol sierter Vacuse I Behand lung weiblicher Maeuse Eine Studie uche den Linfluss des Alkoholy auf die Tactigkeit des Eier stocks die Sterblichkeit vor der Gebirt und das Verhaeltn bider Geschlechte ) irch f Entaick l igsriech d Orga 1927 CH 549

Attempts to solve the alcohol problem by experimentation suffer most in the authors opinion from the subjective prejudices of investigators. Of the enormous literature on the subject only a little is really of value when complicated questions of repro duction development and race come under con sideration. In experiments on animals, it is forgotten that the organism on which the experiments are performed is as complicated as alcohol is chemically simple. The chief difficulty in experimentation is the elimination of the variations due to this fact. The influence of alcohol on the animal is still a problem in itself and as animals react very differently to alcohol no conclusions applicable to man can be drawn from

Before the influence of alcohol on offspring is con sidered it is necessary to determine whether the decrease in offspring claimed by many investigators to result from alcoholism rests on prenatal death disturbances of ovulation or a reduced hability to conception

The investigations reported in this article were limited strictly to the mating of alcoholized female mice with sound male mice. The strains of mice used had been bred to the laboratory for a long period of time and their origin and blood relationship were known In the case of each female the date of open ing of the vagina and the duration of rut were re corded In each gravid animal the exact number of ovulation and littering periods was determined by examining the ovary exteriorized through a dorsal incision under ether narcosis between the twelfth and twentieth days of gravidity Under a binocular microscope the corpora lutea graviditatis which may be easily distinguished from old corpora lutea were counted and the number of dead fetuses was calculated from the difference between the number of the former and the number of living off pring

The sex of the newborn was learned from a red fleck between the anus and the genital papilla in the female and the projecting scrotal ridge in front of the anus in the male

The alcohol was administered in the form of vapor from alcohol saturated blotting paper that was placed with the mouse under a bell jar for various lengths of time-up to forty five minutes for slight intoxication and five times a week until there was loss of consciousness for severe intoxication

Io one group of animals in each series of experi ments the alcoholization was stopped during the last week of pregnancy and in another it was con tinued to delivery

Comparison of the mice treated with small doses of alcohol vapor (forty five minutes daily beginning at the age of four weeks) with untreated sisters of the same litter led to the following observations

I The time between the mating and the birth of the offspring showed a tendency to increase

2 Whether the opening of the vaginal orifice and the first œstrus were delayed was questionable

3 The duration of the estrus evels the number of corpora lutea the size of the litter (male un treated) and the mortality before and during the birth showed no change

In certain cases in which the cestrus cycles had been determined before the treatment was begun the alcohol nearly doubled the length of the cycle This effect was more frequent when large doses of

alcohol vapor were given

When female mice treated with doses of alcohol vapor sufficient to cause complete insensibility (five times a week beginning at the age of four weeks) and mated with normal males were compared with un treated sisters of the same litter mated with the same normal males it was noted that

1 The treatment showed a tendency to delay the birth of the first litter and to increase the intervals between the births that followed when all of the young were killed at birth and the mother was at

once mated again

The number of corpora lutea per pregnancy was a little larger whether or not the treatment was

stopped during the last week of pregnancy

The size of the litter was reduced by about five tenths of a mouse when the treatment was stopped before the last week of pregnancy (Series A) and by seven tenths of a mouse when the treatment was continued to delivery (Series B)

4 Pregnancy in which no young were carried to

term was somewhat more frequent

5 The number of stillborn young was greater by about 45 per cent in Series 4 and by 94 per cent in Series B The number of stillborn female was some what greater than that of stillborn males in both the treated and the control group

6 The mortality before birth was raised by about ooe or two embryos per litter

7 The ratio of the sexes showed no alteration

The percentage of males in 2 857 mice was 51 2

8 The incidence of abnormalities in the young showed no change The report is supplemented by numerous curves and tables

# GENITO URINARY SURGERY

## ADRENAL KIDNEY AND URETER

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M tie C I Renal Surge v-Its Piti II a d C mptc ton C I II I II d 9 S

M the e is 370 case of renals rg ry ithre gad t putf ll n the surgic l techniq and the depopment f complication h purpose be g to determ ne how the tre tment π ay be imposed s this b ptfall and mplication may be avoided n the futur

Them e mm n completens ee hekm tess hem hage ntee ead a comple ction four ases phleb tis in nine cathe formation fast tula dichenging urne depusin six cases anuria in two cases pneumonia in one case septicemia in one case cervical neuritis in one case and abscess of the kidney overlooked at the time of the operation in four cases

Before runal surgery is undertaken a careful pre operative estimate of the function of both Lidness should be made to eliminate patients who are poor risks. I unistaking pre operative and postoperative care does as much to lower the mortility as good

operative skill and judgment
Many pitfulls associated with renal surgers can be
eliminated by improvement in the operative tech
inque Excessive retraction and loss of blood must
be avoided Injury to the tissues may be reduced
by a wide incision and careful dissection of the kid
ney from the pleura liver peritoneum and other
viscera. In the liberation of the organ from the
peritoneum which is in uppo ition to the prerenal
lascia blunt dissection should be employed. A wide
cressentic incision beginning at the point of the
articulation of the last rib with the vertebra and
extending well anterior to the anteriosuperior spine
of the ilium gives sufficient exposure of the pediele
even when the latter is short and the kidnes is high
and is entirely behind the peritoneum. Incision of

by permitting retraction of the ribs upward. The space between the last rib and the crest of the illum can be appreciably increased by the use of a stabilizer which raises the lumbar region from below keep the under leg firmly fleved and the upper leg extended and causes counterpressure on the abdomen from below. The high left adherent kidney is best approached by the extraperitoneal abdomino

the costovertebral ligament allows greater exposure

thoracic incision

In nepbreetom: the renal vessels should be doubly ligated individually if postible. If they cannot be separated the pedicle should be doubly clamped en masse. A ligature should be tied above and below the clamp and the clamps released during the tight ening of the ligature.

For the success of conservative renal surgery the

elimination of stasis is essential

L us Cross MD

Merz II Roentgenographic Measurement of the Compensatory Ilippertrophy of the Nidnes Remaining After Nephrectony (La mesu e le lhyp rit phie comp natince dure ne tant aps népi rect mie par l'adi raphie) 1 d d 1 d s 1 d org n gt i rinnaire 1927 in 6

Mitz states that if two roentgenograms of a patient are made under identical conditions before and after nephrectomy. It is possible to follow the contour of the kidney to measure the surface of the organ and by comparison to appreciate the increase in the runal area and hence the volume of the organ. In determining the surface of the roentgenographic image he uses the Hirtz method. His observations included twenty six cases in which nephrectomy for renal tuberculosis had been done from several weeks to several years previously. Compunisatory, hyper

troph, was found in every instance but the author's conclusions are based on thirteen cases in which the operation was performed some time 'igo and numer ous subsequent clinical bacteriological and sero logical examinations had been made

These cases indicate that compensatory hyper trophy of the kidney remaining after uephrectomy is generilly very marked being evidenced by surface increases innounting to about 33 per cent. The kid ney never doubles its volume. The hypertrophy in volves the entire organ the contour shown by the second roentgenogram following that shown in the first one and it being fair to assume that if the two visible drimeters are greater the third diameter is also greater. The kidney often drops 2 or 3 cm as it hypertrophies the infector pole being sometimes it the fourth lumbar transverse apophysis or at the libac cret.

The hypertrophs appears within a few weeks after the operation and reaches its maximum in from twelve to fifteen months. It is lasting. The duration of the disease at the time of the operation is an important factor determining the amount of the increase. If the disease was present for some time before the operation the healths kidnes had some time to make up for the deficiency of the diseased kidnes and its postoperative increase in size will therefore not be so great as if the disease was present for only a short time. The hypertrophy is greater also in young subjects than in older subjects and in persons in good general condition than in those with other lessions.

The conclusions drawn from cases of renal tuber culosis especially as regards the influence of the degree of evolution of the condition at the time of operation were borne out also in twelve cases of hydronephrosis

Carson W J Dilatation of the Ureter in the Male Autopsy Findings 1 J 5 g 19 7

Of 185 consecutive autopsies on males ureteral dilatation was found in 23 (124 per cent). It occurred on the right side in 5 cases on the left side in 4 and on both sides in 14

The dilutation of the uniter was accompanied by hydronephrosis in 21 cases (88 5 per cent)

In 11 cases (47 7 per cent) the etiological factor was infravesical ob truction

Ureteral stricture was found in 5 cases In 4 it was inflammatory and in 1 congenital

J Syr Ney Ritter M D

# BLADDER URETHRA AND PENIS

Hortolomei Bladder Wounds with Very Slight Symptoms (Plaie d la vessie à symptome fru tes) J d rot r td t d r g2 286

The author reports two cases of wounds of the bladder one caused by shrapnel and the other by a revolver bullet in which the symptoms were very slight. In the first case the shrapnel entered the buttocks and was removed from the bladder by the hypogastr c route six yea s after the injury D ff culties of m cturit on began four years before the operation Because of the interruption of the stream of urine the patient was obliged to uri ate f om t enty to t enty fi e times a day By the us of the sitting posit n urination vas more as ly a ompl h d and the f quency reduced to fom evnt t tim saly Ih um had e r bee bliveli pult possibil to that the hrap el had e ter d the bla ld r n the ruptue f n bcc a ruled out Th shain I ball lay frein the bladd radhd not It as dis nderg in ustation or e o i co ere l th th use of G v n s metalh e plor r In the end caeth re ly bullet nt ed the right butt ck thre fi g breadth posterio to th gett hatr la little blo th Ine h h pa csitsup edge and a stopp dunde the ti es about cm ab th left crural a h At th tim of the injuly the pate te pe i need seve e par n lan urgent d si e to urinate T o h n lr d ubic cent met rs of blood ti ged ur e

e remo d ith h cath ter The h past go as lghth s n t a dited essag er nhit t l ith th blo d star ed un e The ath tr a lift in plac for cht dav Cvt per mit on nil twilth d v sho lithe ficentry the szoda e fra p c on the ght all fith bladde b lv the ente Th oth f th pot e all som hat smaller The f of the bladd h v la m put firm effu ns f bl d N e f the smnt s ha trst fa o d of the

bladd. The hæmaturial stid nivity o hou a door us implicated side lop do

Hage B H and B sel W F Cytgaply

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Les on fth bladder enlyt cordehages may be reon if mehacte stic variation noulle to ether the evid nee from gitton of the medium thuet and uethr vaios deform tes of the bladdroccu now the hypertrophy fthe pot teh ve been need.

The importa fivsto phy niif nts the prist tpui mph sied because of the alue of the precdur n dem nst ting the peence of

atony of the urinary tract with resultant u terecta sis and pyelectasis Deformity of the bladder from extra escal pressure may be recogn z din the cysto gr m sho ing an outline which is usually regular in cont ast to the more irregular filling defect caus d by neoplasm

A satisfacto y technique for making cystogram s descr bed

I the cale of a woman fifty eight years of age whe gave a his tory of recurrent hematura general cam nat a revealed very marked var ces and the hematura was fon dto be due to varietse of the bladd. Susp trig a obstacle to venous circula toon an the pelviss Bilger performed an explor tory I parotomy. He found an extraord narily large var coccle 1, the fill of the boad I gament containing the left tube. The left ovary and the left to but this fold of broad ligament tweer resected. The patient made a complete reovery and the per nal var or signalually disapp ared.

ANAL P CE

S ott W W G ad al D omp ession of the Bladder ith a Uret ral Catl eter J L l

Soft states that in a es in which ur that ather c not be passed a small olver pp dureteral each ter may bused to empty the distance that the may bused to empty the distance and the major of the major

The method is of val in obstriction die to post it malgning. Gi ar J T out MD

Be E Th T atment fTumes ftl Bladder tl Ply ic 1 kg nts (T tem td t m d i p i get phy qe) J d l d i o 7 37

Be ba esh co cl s ons as to the value of physical agent in the cattern of bladde t mor on moe than 4 o case. If e states that the us of the high frequency current though the cystoscope highly a man the ped of the high plant of the bight plant of the bight plant of the plant of

In the operat, tratm t of bladde tumors c ery p eca tion should be taken to p e ent new

implantations Beer opens the bladder with the radio line and after coagulating the timor with the current removes it with the cutting needle. Of thirty three cases in which this method was used 8, per cent were apparently cured. After the operation the bladder should be re evanimed regularly with the cystoscope. Washing of the wound with pure alcobol prevents new implantations because of the coagulation it cluses. Beer has used the operative technique described in cases of carcinoma and appliloma. If the neoplasm is found to be non resectable he destroys it with radium. Apparently good results were obtained in 60 per cent of cases of papilloma and 35 per cent of cases of infiltrating carcinoma.

The application of radium emanations through the cystoscope give apparently successful results in 50 per cent of the cases. The mortality was highest [33 per cent) in cases of non resectable tumors situated near or at the sphincter in which radium was applied in the open bladder. In only 6 (30 per cent) of 31 such cases was an apparent cure obtained.

In 17 cases of carcinoma in which deep roentgeno therapy was tried it occasionally caused an ameliora tion of the symptoms but in no instance resulted in a cure ANNA L I VCE

Ingebrigsten R Gancer of the Bladder Treated with Radium Gure of Seven Yerrs Ducation (Cancer de la vesse traits par le radium guer son depuis sept ans) B ll et vièm Soc nat de chr 19 7 lu 1291

Ingebrigsten reports a case of cancer of the bladder that he treated with radium seven years ago. The patient still remains cured. The diag nosis was made by the Pathological Institute of the University of Oslo on the basis of a boposy specimen taken at the time of cystostomy. The treatment consisted in the application for forty eight hours of 110 mgm of radium bromide with a filter corresponding to 3 mm of lead. The tubes were placed in contact with the tumor by tamponing the bladder. The bladder incision left open until after the removal of the radium healed normally. The patient left the hospital eight weeks after the treat ment. In the two examinations that have been made since that time the last one 10 Cotober 1927 no recurrence of the tumor was found.

ANNA L PACE

### GENITAL ORGANS

Hunt V C Immediare and End Results of Supra public Prostatectomy A Consideration of the Factors Involved Can d v M Ass J 1927 v 11 1462

Certain changes in the management of henign prostatic hypertrophy of the prostate gland following suprapuble prostatectomy bave resulted in a great reduction in the mortality and improvement in the ultimate functional results. Cardiovascular disease is as important a consideration in the immediate and

end results of prostatectomy as renal insufficiency The chief essentials for the most successful treat ment of surgical heigh prostatic obstruction are pre-operative treatment and accurately visualized operative procedures

Recent investigation of the relationship of pre liminary treatment to the mortality following pros statectomy has definitely established the necessity of such treatment in all cases. It has been shown that the mortality rate in the best surgical risks without preparation approaches closely that in the exceed ingly poor risks requiring long periods of preoperative preparation and is twice that in the best surgical risks with the advantage of adequate preoperative treatment

The important factor in the preliminary treatment is drainage of the bladder. This is accomplished more satisfactorily by means of the urethral or supra pubic catheter than by intermittent catheterization.

Drainage permits the recovery of renal function and stabilizes the cardiovascular renal reserve. It should be continued until the renal functional tests bave become stabilized within normal limits and the general condition has improved to the maximum In many instances the maximal safety of prostates tomy may be assured after a period of from ten days to two weeks of pre operative treatment but if the patient is in poor general condition with marked renal insufficiency it may be necessary to drain the bladder for months before the operation can be undertaken with any degree of safety. Experience has led to the adoption of a minimum of ten days drainage of the bladder even in the most favorable cases

Usually suprapubic prostatectomy is performed in one stage but associated conditions such as vesical calculi vesical diverticula severe cystitis marked renal insufficiency requiring prolonged drainage and senility forbid the routine adoption of the one stage operation. In carefully selected cases adequate drainage of the bladder may be obtained by means of the urethral catheter and in 75 per cent of them this facilitates the one stage visualized operation which permits application of the general principles of surgery—adequate exposure accuracy of conduct and complete hymostasis.

The type of anæsthetic used is of importance in prostatic surgery. It has long been realized that in halation anæsthesia should be avoided. Regional anæsthesia approaches the ideal as it possesses none of the disadvantages of general anæsthesia and is de void of the potential dangers of intraspinal anæsthesia.

The type of operation performed for the removal of the prostate gland unquestionably has some bearing on the mortality rate and ultimate functional results. The one stage operation which is readily applicable to 75 per cent of the cases is preferred in certain cases the two stage operation is necessary to reduce the risk, but it possesses the disadvantage of blind extripation of the gland which sometimes results in incomplete removal of adenomata and

leav s an irregular v sical n ck vith mucous mem brane tag a potential and oft nan actual source of subs quent ob t uction As a goup thep tents on whom a one stag, operation is p formed obtain better functio al e lt than those on s hom the t vo stag ope at on s perfo me i F cept in cases in which obstruct on of the escal neck develops after the tyo stage ope ation the functional results in te ms of symptomatic reli f a e le s depend nt pon the type of operat on the n up n the d gr e of pyelon phritis Si ce the one stay op to i the one of choice and applicable in 75 per ce t of the cases and si ce the to stage operation is rese ved for patt ats who a e poor surgical rilks usually on account of ad a ced pyelon phriti the esult f the to stage operation under the ircumsta ces of this parti ular selection of patients a e not as goo! as those of the one stage ope ation not as go d as those of the two stage op ration pph d to pat ents who are g od surg cal ri ks

Hæmostasis s of great importa e in p o t tec tomy Of the various hamostat m a res utur to control ble dig at the v st al n ck and compre s on thin the prostatic capsule have p v d the

mo teffici t

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Belgield I ROLL & Hatt of at the fict th t th p 1 s et d b th pudilym nd em nal e cl ma lep cpit ted in th u e by heat and tic 1 a d thi e ic l alb m nuria i ea ly m taken f re al lbum un

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oral adminitation of pyridum to man they demonstrated that the seminal ducts of the dog a d of man excrete certain fore gn substances introduced into the circulatio On the basis of this demonstra tion they attempted to influence infections of the seminal duct by means of chemicals introduced into the bloo 1 In fifteen of thirty cases of non tubercu lo s pro tato esiculitis h ch were refractory to the usual med cal treatment all evidence of infection promptly dis ppea ed following a few injections of neo arsphen mine or sulpharsphen mine

The a th rs onclude that in chronic prostate e cul ti an i its complications internal medication ith ar phenam ne may lecrease the number of ope ations high are performed for the co dition becau e of the fathere of the u ual medical therapy

CAMPBELL states that clinical and experime tal obse vations in 3 000 cases of acute gono rhoral ep didymit admitted to the Urolog cal Service of Bellevue Hospital Ne v York indicate that the best n n su g cal t eatment consists of rest n bed with splinting of the scrotal contents by an adhes e uspenso y ban lage and the application of a see cap ( ithout ur thal t eatme t in g orthoral cie) Ep l lym tomy affo d immed te relief from pain and s indic ted in one of e ery fifteen On the a c 1g the patient ho i operated up 1 hospit lized for only three and seven tenths d is I ge than the p tent i ho is not te ted surg cally The prevent on of po toperati e ser tal hæmatomata i ailel by a ser tal compress on b dage de c b l by the author Most compleate o s result f om seconda v infect n Loss of the te ticl causes g e test viety A careful follow up a athe lim t d se e of ca es indicated that teril t i less f que tin th blaterally in olved

orga s bjected to ep didymotomy

G CHE T

### MISCELLANEOUS

Helmh lz II F Abn rm I ties f the U Tat J 1 1/1 97 lx

The autho less es not merely to list a s rie of co gent I an mal of the ur nary tract in child ho d but to emph uze that such anomal e ar p I bly oft n pr t in appa ently normal in fant an I child en s by the pediatrist. They can b I te t d by ar f I que ti ng v th regard to urn f tio and symptom a ful am na t on f land ve 1 lareas and the bjectin f pat nt th hro py litis that cann t be d a I to ly short per od of int as ve treat me t t ompl te urolog al exam nat o O ly th cath vber gnied bie thee tire n par hym i festr yed as the rult f conti ued u na v bak pr sur l f ct on

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

# CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Todd T W and Iler D II The Phenomena of Early Stages in Bone Repair 11 Strg 1927 1777 1715

In their studies of the phenomena of bone repair the authors attempted to answer the following questions. What are the essential principles common to bone repair in different sites? Do all parts of the frictured surfaces and their immediately adjoining bone take part equally in the repair? What is the time relationship of the occurrence of the several phenomena of bone repair? Does the time relation ship vary with the site or with the mammal? What modifications in the structure of repair are entailed by the type of fracture? What evidence is there of the site of origin of the definitive callus?

They first cite the findings of Sullivan Bast and Geist who studied the histological changes involved in bone repair in rabbits following saw cuts of the upper tible. The findings of these investigators

were as follows

On the first day sections showed clotted blood filling the cut with grant cell about the bone splint ers produced by the sawing. The cambium layer on each side of the cut was thickened by proliferation of its cells. The fibrous periosteum was codematous. No endosteal change was apparent.

On the second day masses of fibroblasts began to organize the clot The cambium layer was thickened on each side of the cut for a distance of from one eighth to one fourth of the bone circumference Pro

liferative changes began to appear in the endosteum.
On the fourth day, new bone was present as denta tions under the cambium layer and as long slender.

coalescing spicules extending into the marrow cavity.

On the fifth day cartilage surrounded by fibro blasts appeared external to the crimbium layer. Ab sorption of bone began beneath the external calling which itself appeared more cancellous than before.

On the sixth day internal callus completely bridged the cut and extended into it

On the seventh day the external callus was ex ten ling into the then more advanced erosions of the

cortical bone
On the eighth day this union of the external callus
with the eroded cortical bone became more intimate
and the internal callus showed signs of dissolution

On the minth day the external callus also had entered the cut and many osteoclasts were visible in both the external and the internal callus

On the tenth day the external and internal callus

On the twelfth day the definitive callus had he come cancellous the external and internal callus

were reduced in amount and more advanced ab sorption of the old bone was visible on the surface of the old cut

On the fifteenth day new bone completely filled the cut There was transformation of the new bone by a process which did not require the presence of osteoclasts and embryonic fibroblasts lay over the external callus parallel with the bone surface in dicating the direction of future periosteal fibers

On the sixteenth day erosion was still marked in the old bone surfaces and the external callus was much reduced A line of osteoclasts was observable

under the cambium laver

On the seventeenth and eighteenth days this excavation of old bone continued and the erosions were rapidly filling with new bone. The new bone was taking the form of haversian systems

On the twenty first day the external callus was entirely removed and even the bone plate in the cut

was reduced in thickness

On the twenty fourth day the internal callus had almost entirely disappeared

From these findings and those of their own in vestigations the latter including a study of the skeletal material found in the Hamann Museum of Western Reserve University the authors draw the following conclusions

The two processes going on side by side in fractures without mobility of the fragments are crossion and proliferation. Callus begins to appear on the fourth day and eroson is apparent by the fifth. In normal actively growing bone there is an essential exaggerated vascularity in response to the increased demand on the part of the bone for more than ordinary nourishment. This phase is compensatory rather than causal.

It is obvious that osteoclasts are not absolutely essential for absorption since erosion is found in their comparative or even total absence

Failure of the phenomena of bone repair to develop is related to the patient's age

When periosteum is elevated from bone adjacent to a fracture the hone often suffers a reduction in its vitality shows no ero ion and takes no active part in repair. Such bone is not dead but ultimately becomes incorporated in the new structural bone.

Free movement of fragments does not inhibit the normal repair process but if fractured ends of low vitality rub against each other—and bone fragments cannot rub against each other without reduction of their vitality—friction facets similar to the occlusal and interproximal facets of teeth are speedils formed Such facets develop within two weeks after fracture and are usually described as polished or eburnated areas. They are found most often in rib fractures hut may uppear in fractures of the long bones.

Endo t um o cancellous tissue is of great im porta e n bone r pair. As compared v th endos teum and tl c mb m lay r compact to ue takes but little pat n th f rmat of new b ne tacts as a scaffolling p h h th n bone is laid

Boerpai is quikt he e cancellous t ssue is relativity m st bu lant and m bity is sight or absent a th v rt brand nfssur d nd green tikf ctur rjr quk t

I S O D

Keitl Si A C n n ng th O g n nd Nature of O t bl ts P I S II l L I g 1

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H.L. r.C. a M D

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or less filed by a spongy new growth. The pen o teum is al avs in olved sometimes more than the bone

Fib ous o teody strophy has no relat on to diffuse hyperost tic bone yphilis and is not as is some times ssumed a ma ifestation of late here litary yphili or a para yphilitic disea e Each of these co dt ons h s a di tinet h stolog cal cour end result a d ntg n p ctur Luetic osteit s and hyp rostotic osteomyeliti a c characteri d by a ch nge of the marro nto granulation t ssue which pro id for r orpt on and e format on of bone In tib ous teodystr phy the marrow is changed nto f hrous t ue eso ption of bone occu s thro h th act on of g nt c lls and new bone is formed as o te d tu u

An the diff ren e s the nature of the involve me t of the p r steum In fibrous osteodystrophy the bon chinges o far as the perio teum is co cr do curin one stage

A th rd I ff ence is the change in the marr In fibrou ost odystr phy this cavity is th fitty r d marro , thil in the luctic c dt n it s more or less replac d by ne ly frm dsp vbo

c s that in the luet c d case Af theif th 1 c a e 1 the length of the bone is a result of intl mmato s st mulati n of the epiphys al cartil ge nd b ing is the esult of the el g tio fibro s osteody trophy the inc ease in length is the r It of total nt rnal ove productive cha ge in st uctur

The pathologico natomical differences may be se n di t n tly in the ro ntg n picture Therefore a rontgen vamt at on a of spc I value hen other 1 al a 1 su h as the h to y and the Was er II cH (Z) mann t t e doubtful

h E F and Ry rson E W Metast es of tie B ne in P im ry Carcin ma of th Lu 2 AR I w of S C II d Endotheliom t of th 115 8 98

Meta ta e to bo occur in a large umber of cae f pr mary a oma of the lung a d in me ca the sympt ms cau ed by the b e tum is loms at th clin alpcture

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11a ly of the pot of so call dend thelo mata fbn lem nst ate that m v of th se e p t a e b ed n a study of tissue remo aclime e h h nautops, a otpr ot do e th ufficie t c re f m d l te or

r e l pr mar carcino na of th l g

Metastatic carcinomata of the bones are easily confused with other bone tumors Therefore a diagnosis of endothelioma of bones in surgically re moved tissues containing cells resembling epithelial cells in the alveoli and tubules should be checked by a thorough postmortem examination in which all parts of the body are carefully examined

H. FARLE CONNELL M.D.

Walmsley T The Articular Mechanism of the Diarthroses J Bone & Jo & St g 1928

Diartbroses serve two functions-weight trans mission and movement. The first is secured by the articular mechanisms the second by the muscles By the articular mechanisms diarthroses are functionally transformed into synarthroses and transmit weight without active contraction of the muscles

At the hip flexion is limited by extra articular factors but extension is definitely limited by two articular mechanisms. As the capsule is twisted and shortened it forces the head into the acetabulum like a screw until at 15 degrees of hyperextension the surfaces are congruent and the joint is locked The head and acctabulum are not spherical but so shaped that their surfaces can be congruent only in W P BLOUNT M D hyperextension

Smith R The Relation of the Surgical Pathology of the Right Lower Quadrant to Arthritis

Bo ie & Joint Su g 928 57
Taylor R G Surgical Lesions of the Right Lower Quadrant Demonstrated in Patients with Chronic Deforming Arthritis by \ Ray Opaque Meal Examinations J Bone & Joi i S g

SMITH discusses particularly the relation of excal stasis to polyarthritis

Clinical evidence indicates that chronic poly arthritis is due to the absorption of bacterial toxins or toxic metabolic end products due to an un balanced tleocæcal flora dependent upon tleocæcal stasis and an occasional shower of bacteria from the same source. In the presence of a mechanical block of the excum it is almost impossible to change the flora to normal but after removal of the block the same dietary treatment which failed to influence either the flora or the symptoms before the operation will result in cessation of the pain stiffness and contraction due to the arthritis. In Smith s cases the following examination and treatment are given

t The ordinary sources of focal infection such as the teeth tonsils sinuses and pelvis are investi-

gated and if necessary cleaned up

An \ ray examination is made of the gastro intestinal tract to determine its mobility and motility special attention being paid to the ileo cæcal coil

3 A balanced diet is given for forty eight hours in order to obtain a standard for comparison and on the morning of the third day a stool smear is ob tained from a freshly collected specimen

4 If the stool examination shows unbalance and the \ ray reveals no gross pathological condition the patient is placed on a medical regimen designed to restore the normal intestinal flora

5 In cases with distinct exeal block and pro longed cæcal stasis the medical treatment is pre

ceded by operation

After the stools have become normal and the joints cold any type of operation or manipulation can be performed on the joints without causing a reaction

TAYLOR states that in roentgen studies of the gastro intestinal tract in ca es of chronic deforming arthritis he has found the best procedure to be the use of the single meal followed by immediate ob servation and observations at six nine eleven and twenty four hours and every twenty four hours thereafter until no further information is obtained In some cases these observations should be followed by an enema and in the majority a dyc study of

the gall bladder is advisable

The best evidence of obstructive lesions in the ascending colon ileum and creum and of the mo tility and mobility of these portions of the intestinal tract is obtained at the nine hour observation. The only satisfactory way to demonstrate such lesions is to examine the patient under the fluoroscope to the standing position The mot important factor re spon ible for stasis is a twist in the ascending colon When the excum is dropped into the pelvis in the standing position a rather characteristic crook or kink appears usually just above the ilcocæcal level and at the lower border of the membranous attach ment At this level and distal to it there is definite thinning of the barium shadow due to narrowing of the bowel by torsion Subsequent twenty four hour observations are important in demonstrating the delay in emptying NORMAN C BULLOCK M D

Gonorrhocal Arthritis J 111 W Thomas B A 927 1 128 174 1s

The incidence of arthritis as a metastatic com plication of gonorrhoen has never been high aver aging only from to 3 per cent Males are far more frequently affected than females. In the vulvoya ginitis of children and in gonorrhea and ophthalmia neonatorum joint involvement is rare

Not infrequently the joint condition is precipi tated by trauma applied directly to the joint or in the form of ill advised or careless urethral instru mentation or treatment excessive activity or sexual excitement during the acute stage of the urethritis The artbritic symptoms in the acute stage of a gono coccic infection usually manifest themselves during the second or third week but joint involvement may supervene at any time in the acute or chronic course of the disease or the complications it pro duces in the urethra or the uterine adnexa

It must be conceded that the arthritic manifesta tions of gonorrhoca are the metastatic exponents of a blood borne infection There are assuredly many iostances in which the joint fluid is found to be

sterile—a torus in co tradit nation to a bacterial snow it sea d in which the ba teria bocalizing in the epiphises of the bones cartulages or synovial memba anse o che see ous effusion not to his you tall sac of the joint by the inflammatory is action the yordine. In other a cs. d pendig gupon such factor as the vull of their fecti and the vital resist of of the path is bacterial invasion of the jint occurs practically at the onset if the in live ment

In the auth peeme gonorrhoad a thrust abase p hartel n 88 preent of the cases and m a ticula in 4 per cent of the cases in declined by a ticula in 4 per cent of the cases in declined by a ticular in 4 per cent of the cases in declined by a ticular in 4 per cent of the cases in declined by a ticular in 4 per cent of the cases in declined by a ticular in declined as in a ticular in distert olds it is a solic to the ticular in distert olds it is a constant of the cases in the case in

Clinilly the ous path logical types a ediyld nt ac te and honic grops a treat d

a odnsl

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1 nt th all a thrit must b I ff rentiat d Act g The latte 1 pon to from ac te heum tcfv be mor mg at ry the gono co of ton and t n I call of the joint but the fist soint t beaff tdtndtobcm fe frm smp tom 1 the last a ny led hr ı gon orrhead thati the sympt ms p restst a the first joint aff cted I he m t c fe er the jo nt symp tom a mo a te th temperat e shigh r nd sve tig and pr st ati ar mor marked II w e er ch lis and eats may occur als ng no rhecal arthriti f the i fl mm tinb om pr lent g nor becal a th it's bould al

The pro nosi g nor heed at hits hould all as b gu ded It sid ectly dependent up n the promptn of the treatment and 1 bett r n the ut than 1 the h on c for m of the disease

The tr atment of gonorrheal thrit's emb ac not only the management of the jean that all the left urethral all for of infects ples the teme invasion hich not nfr quently course.

No olute ret f the flect d ion t for a ek kno i obligatory nd my a ethe pati t weks or vears of disabil t Cautio m st be ve cised hove e not to immobilize the joint too long

Antigonococcus serum should be given intrave nou Iv or subcutaineously or or ortho odoxyb nzo c act 1 ndm niste ed intravenously as soon as possible the former being repeated in increasing doses e cry other da for three or four injections and the latter r peated? I ce veekly for the eor four veeks

The author's e perience with mercurochrome calcium bloride and Pregl's todine has not convinced him of the reputed value of these chemicals. In thocase, the u e of Pregl's tod ne was followed by an

blite ative phlebitis

Wh n the pain is see e 4 c cm of a 5 per ce t olutin of sodium sal cylate and from 15 to 30 g ( to 2 gm) of sodium include will often give great r lief

In rare cas s of purulent fi sions a throt my man be necessary but as a rule aspiration and r 1 oction of the jint (only if the fluid is puillent) that specific antiscrum or from 5 to 20 cm of a sol ton of lo malichyde and 2 per cent glycer in peat 1 fracessary, ill be suffer in

In Il cases local gen to ur nary treatment con s tt gof rig tions prostatic mass ge a d medica ton of th sem nal ves cles p eferably by vaso pun tr o if ther are abscesses drain ge of the min less le and the prostat by perincal opera ton shoul l'be done as oon as e ped ent

Hyp ram a by Bier's method o induced by spr hat drobyel totty of the subide coof the auto effing follo dby psive a dactivem to vry bneh l HEVEL Coe MD

Fisher \ L Some Con derations of Second Typ

A ti tis Ex mplifi d in the Shoulde J t

J t S g 9 8 46

Lowman C LeR Continuou T ton the T atm nt of Spinal C nd tio s N tably S olio is J B & J 15 g 9 8 14

In the treatment of soloss by c timuou tation sd which by Lowma a very 1 genou method 1 employ d for the correction of sput 1 tatin N with tract n applied t the head a depely in the u usl man er the body 1 ener! d by d had of c n a u der tracto \ \text{th} h passove 1 g spool on a g s p pe ext ni g fom the had to the foot of the be! I hes h ds are place! It they ted to 1 rotate th totate \ \text{th} the purpose of the \( \frac{1}{2} \) of so nthe gas p \( \frac{1}{2} \) to the tent of 1 trall pulls constant

In Lo m as pinion c thuous tract 1 accomplish as much in from for to eight ch

to I to eight

is accomplished by the plaster treatment in six months. The former method is of advantage also from the standpoints of rest and improved hygiene

After the maximum degree of improvement has been obtained as shown by the \(\cap \) ray a spinal fusion is done. If the deformity will not permit complete closure fusion is done only on the concive side of the curve the concavity being bridged by a tibial graft

PAUL C COLONYA WD

## Rollier A Heliother 1py in Hip Joint Tuber culosis Strg Gynec & Obst 19 8 xlv1 95

Roller states that the cures of tuberculosis obtained by heliotherapy are distinguished by three principal characteristies a splendid general condition development of the musculature and frequently the return of function in diseased ionits

He advocates insolution of the total surface of the integuments because he is of the opinion that the sli ni is not only an organ of protection but also a very important organ of defense and is able to subserve its physiological functions only when it is placed in direct contact with its intural milieu air and sun. Not only does the skin play a leading role in the general metubolism but it secretes per day more than r liter of sweat containing sebuceous matter and various toxic substances it is the most important source of immune bodies and it is probably last the most important endocrine organ

The action of the sun is first of all general being manifested in the skin the musculature the blood

the endocrine organs and the skeleton

When exposed to the air and sun the skin becomes toned up and pigmented and regains its physio logical function. When pigmented and physiologically adapted to heat and cold it resists the pene tration of germs The cicatrization of wounds is thus favored The pigment serves as a protection against over irritation by the ultraviolet rays and as a regulator of the heat from the sunlight. In addition as Rollier's experience indicates it acts as a kind of accumulator of dynamic forces the patient's resistance being generally proportionate to his pigmentation There is increasing evidence that the skin receives furnishes and activates the elements essential for the metabolism of hormones and vitamines and that the majority of the avitaminic conditions are due simply to lack of sunlight

The action of the sun on the musculature is very remarkable. By dilating the skin capillaries it causes a flow of blood from the depths toward the surface thus acting as the most perfect massage. The building up of the muscles under the influence of the sun may be attributed doubtless to this more active circulation and al o to the continuous reflect tonic action on the muscular fiber arising from the wibratory shock of the radiations on the mesh of sensitive nerve endings in the skin. By restoring the natural tone to the muscles and ligaments the sun cure re establishes the normal balance of this lever mechanism and thus by an eminculy physiological process brings about the return of articular function

While the general action of heliotherapy can restore to the body undermined by tuberculosis a normal physiological function and a symmetrical harmony its local action is of equal importance in the treatment of tuberculosis of the bones particularly of the hip. However a rigorous dosage and strict technique are prime essentials. Rollier has established certain principles of poology which are applicable to all cases. The dosage must be so graduated that the reactions are never of harmful intensity.

When a patient with hip disease arrives at the Rollier clinic all plaster apparatus is immediately removed. After a few days of repose and acclimat ization immobilization and extension are begun. In some eases extension must be applied immediately after the removal of the plaster to combat the pain and a tendency toward dislocation remains at first in his room with the windows open where he accustoms himself gradually to the Then if he shows no general reaction attributable to climatic conditions (e.g. a rapid pulse a subfebrile temperature nervous irritability etc ) his bed is rolled out on a balcony to accustom him to the open air After a period of time depending upon the observations of the doctor (general resistance of the patient the state of his organs the presence or absence of secondary infection elevation of temperature etc) the sun cure proper is begun

The first exposure to the sun is very brief On the first day the feet are exposed three times for a period of five minutes each with a half hour interval be tween the exposures On the second day the feet are exposed for three periods of ten minutes each and the legs up to the knees are exposed for three periods of five minutes each. On the following day the feet are exposed three times for fifteen minutes the legs up to the knees are exposed three times for ten minutes and the legs up to the hips are exposed three times for five minutes. On the fourth day the abdomen is exposed to the sun and on the fifth day the thorax is exposed a damp cloth protecting the precordial region The upper regions of the body are exposed with great care. During this time the condition of the patient his temperature and pulse and particularly the local reactions are carefully observed and at the least sign of intolerance the periods of insolation are shortened or suspended for a while

Fo obtain a cure of hip disease with correction of the orthopedic deformity rational orthopedics must be employed in addition to heliotherapy. Rollier has abandoned the use of the closed phaster apparatus. From the beginning of his work he has considered the wearing of such apparatus contrary to true phissology, and orthopedics. He has therefore replaced the fixed plaster shell by orthopedic applannees of great simplicity which allow free access of the sun to the diseased regions thereby aiding the local defense without hampering the general treatment.

For the orthopedic treatment of hip disease as for that of Pott's d ase a correct arrangement of the hed is essential. The mattress should be flat and of hard mate I which will not form hollows under the pressure of the hody A soft matt ess into hich the hody sinks pre ents the normal evaporation of s at favors maceration of the sk n and the fo ma t on of hed so e and may caus a faulty posit on

In Rollier's clinic the heds a e of metal with an under frame of steel plates They are fitted with wheels so that they may he oiled onto the g Her and are suff ci ntly high to facilitate the careful control of the post on of the p lvi a d the e tension apparatu and at the same time permit free exposure to the sun A m llet se d cushion is placed in th har I mattress to raise the pel s This raised pos t n hile teadying the p las facil tates perfect

posue of the covof m lreg nt the s na d aid in the previation of fiction and adduct on defomtes o ther o ctinif the realrade prant hen the patent red t the clnc C nt uou ext n : n of th leg on the diseas d sid is an absolute rule of t time t Its hject is t hold th artiular surfaces apart by ax 1 t ct on n o dc to p ent fiction and adhesion with contact contam nat on of the opposi g urfac arati n of the articular surf ces also c eases the nalg c cti n of the sun In order t avoid di tent o of the k ce jo t th tension sho ld pull

from the thigh of his convict on that go ous and com

plete mm hil ati n i an rror pr judicial to the o gan c lefe se R ll eck hym ans of a p og s si e course of tretly nd vid l ed m n l ork to d elop th spec no res st noe of the pat ent along

th hi g n ral r stance As o n a the li ical and rocntgenological c d ton fth hp) tp mit moderat m hil ato w tho t fe of acc dent the patt to pi ed n the entral post of p tof the u hath A edge hape i cu hion s pl ed un i the tho av and nother cu hion is placed unde the feet t pre t e c iv traction on the tocs The ventral positi n does ot clude the maintenance of extensi n and has the gr at advantage of allowing exposure of the enti e body and particula ly of the thigh r gio a d thu helping the development of the m cula Oft a tr e muscular regeneration 1 the result Th quadriceps which s so often degen rated to mere trip and th gluteal mass h ch is com pletely flatten dout inelastic and he eft of po e regan a form and s ze appro ch ng the no mal

As the circulat on becomes mo e ct ve and in tense under the act on of the sun and as the nteg ument b gin gan to part cp te n the c cle of local metahol sm the mus les ec ve the tone and elaticity and contile to the return fa t cul r function The tun of f ction is al av spontaneous Roll r er allows acti o p si e mo eme t of the ioi t

The b ginning of movements are seen during t eatme t and develop pa : passu with the p g ess of cure but the pat ent is allowed to try occas onal flexion mo ements only after the \ ray has demon st ated cicatrization of the bone These movements impro e the circulation and strengthen the muscles and the r daily repetition helps to restore the mo hility of the joint insofar as the anatomical condit n ne m ts

The treatment of hip disease by heliotherapy is most succe sful when the lesion is a closed one. In the presence of a cold abscess Rollier is in no h rry to aspirate He waits as long as possible ie as long as the abscess does not threaten to open pontaneously. Aspiration is done only when the sk n s thinned by the abscess Rollier attaches im p rtance to cold absce ses because on account of the; c ntent n immune hodies they contribute a v luable immunizing factor to the defense of the organi m Aspiration should be carried out at a d stance and repeated if necessary to preve t spon taneou ope ing The complication of m red i f cti n completely everses the favorable prognosis of lo ed hip disease Rollier therefore insists on cons r at e tr atment of this localization in order that the closed tuberculous lesion may not be t asfo med into an open one

In fist lous hip disease good d a nage is esse tial If the tr ck is ell drained the sinuses will dry up

s the gene al cond t on mp oves

In describing the processes of hone repair Roll er stat that he commonly sees tuberculo s cas s 1 full a t tw with the acetahulum the femoral head nd e on the neck of the femur sho ing the signs of extens ve melting r pre ented in the film by the well known fo hich oblit rates the c ntours of the joint In the chaos a ne head gradually appears the o three of which at fit confused a dicloudy hecome g adually more prec se and regular The dema cation zon then becomes clarer and the decale fi d r gion become the sit s of intense r calcincatio

In case in which the f moral head has burst th o gh the c seat ng floor of the acetahulum the A. r. y films demonstrate reconstruct on hy stages A st ng p rt tion of rough structu e is first laid This becomes compact and regular and there s formed a firm and delin ated new art cular cavity which allows a functional adaptati n of the ne f moral head

When once the hony c catrization is complete clin c llv and roentgenolog cally the per od of t nng for the vertical position and fo e e cise heg ns Prudent graduation with the usual pre caut ns is essential n Rollier s cases at this stage last c h ndages are placed on th legs to pre v nt ahrupt d latat on of the venous network and orthoped insoles e placed in the shoes to support the plantar a ch and pre ent flat fo t When the p tinth gin to walk he is ded hy the use of l ng st cks h ld at should r le el so as to vpand the hest C utches are not employed as they have a t dency to deform the spine

H EARL CONWEL MD

Wakeley C P G Fibrocystic Disease of the remora Proc Roy Soc Wed Lond 1927 vvi 67

Wakeley reports a case of fibrocystic disease of the femora in a physician thirty two years of age The patient stated that at the age of ten years he sus tained a fracture of the right femur at the juncture of the upper and middle thirds as the result of a slight trauma Good union resulted in six weels Immediately thereafter he suffered a green stick fracture of the left femur at the juncture of the upper and middle thirds as the result of throwing the weight of his hody on the leg Good union re sulted in eight weeks but was associated with angular deformity. At the age of twelve years the patient fractured the left femur in the same region Good union resulted in eight weeks. At the age of fourteen years he sustained a third fracture in the same region of the left femur Good union resulted in ten weeks but with marked deformity

When the patient was seventeen years old the deformity of the left leg was increased and there was marked cova vara of the right hip. The roent genogram revealed in the left femur a cyst the size of a hen s egg An osteotomy was performed and the wall of the cyst scraped The fluid in the cyst was of a dark color No growth was obtained on culture

The following year an ostcotomy was performed on the right femur to correct the coxa vara and the deformity of the left femur was also corrected The

bone was found to very soft

When the patient was twenty five years of age he sustained another fracture in the same region of the left femur as the result of an accident At the end of five months union was poor and the use of a weight bearing caliper was necessary

When the patient was twenty nine years of age an osteotomy of the right femur was performed to correct the coxa vara which had recurred Following this operation a streptococcal osteomyelitis de

veloped but cleared up in three months

At the present time there is a well marked fibrocystic disease of the upper ends of the femora and the patient is obliged to wear a walking caliper splint on each leg and to use crutches Following the last osteotomy a culture made from streptococci recovered from the wound was intected. Thereafter some of the cysts appeared to clear up and consoli date Whether this was due to the vaccine or the protein shock the author is unable to say hut he believes it tends to confirm the theory that fibro cystic disease is of inflammatory nature rather than a new bone tumor formation

NORWAN C BULLOCK M D

Moore C U Rickets of the Lower Extremitles Its Relation to Genu Valgum and Static I Int Foot J B : & J 1 Sirg 9 8 x 96

Skeletal signs of rickets are most evident at times of ripid growth of the bones that is during the first two years of life and at puberty These signs are craniotabes in the first six months the resary and Harrison's groove in the first year genu valgim or varum in the second year and static flat foot at puherty

In normal legs the epiphyseal lines of the femur and tima at the knee are parallel and the knees and inner malleoli touch when the child stands with the feet parallel. When the I nee is rachitic the roent genogram shows cupping or feathering of the epiphysis thinning of the cortex transverse lines of deposited calcium in the diaphysis and an epi physeal line which is not at a right angle to the shaft When the epiphyseal line is not at a right angle to the shaft the knee goes inward or outward when weight is borne on the leg depending upon the direction of the slope of the line. In such cases there is also abnormal lateral mobility. This is often the first sign of a rachitic leg

For the measurement of lateral mobility the author uses an arthrometer which holds the thigh and permits movement of the leg below the knee When the knee is normal the lateral movement as measured at the heel does not exceed 3 cm By means of records made with the arthrometer the course of the deformity can be definitely shown without I ray examination or other expensive procedures In the case of the ankle such measurements are more difficult and records must be made with

roentgenograms

In cases of flat foot footprints do not always give a reliable idea of the functional condition. A simple test consists in having the child stand on the balls of the feet If the scaphoid bone is not visible or palpable in this position but becomes prominent when the child comes down on the entire sole functional flat foot is present

It is commonly thought that children outgrow rachitic deformities but examination of young adults shows that this is not true. Of the first million men examined for service in the Great War the rachitic deformity of flat foot was found in 177 per room an incidence practically as high as that of all other diseases and deformities combined

There seems to be a hereditary factor in rachitis extending back sometimes three generations. In the experimental production of rachitis it usually takes three generations to produce the disease by In the cases of children who show rachitic signs in spite of careful diet the parents were probably rachitic

Every effort should be made not only to maintain the child on an antirachitic di t but also to provide heliotherapy and light clothing More danger is associated with heing over cloth d than with being under clothed WILLIAM & CLARK M D

Henderson VI S and Fortin II J Tuberculosis of the Knee Joint in the Adult J B & I S g 1927 1

Ty o hun ire I and eleven cases of tuberculosis of the Lnee joint treated surgically are reviewed. The patient age at the on et of the con lition and at operation and the relation of the lesion to tubercu

los s n other parts f the boly and to assoc ated

Tub culos I the knee p at scharacter zed by chromotty and emi thout emplete free lom fom s mptom. The lata to be obta. I from roe tge og ms v v the the t g of the c. I tion there appare the not spacel petue. In m t face are n d both the spous and bone e ole l i k a small pe e t gev us the swm a l t alone.

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d t the ! f the joint

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In the c of child o ne or to years f age const nt ela t tact appl d as so possible F om a pla t cast of th foot a sm li shoe is made by the celluloid acetone method. This shoe fits perfectly and is padde I with soft felt. It leas the foes free and is open at the outer borde.

In low 1 cut for the c ternal malleolus a description of the control of th

clo el 1th laces By means of this shoe it is poss ble t obtain a bette hold on small feet including the c lc neum Elast c traction is applied to the shoe

with the id f hooks or eyelets

In the cases of small children the pull is best to a cliff in the siles of a plaster bed. In the case of to bil iron who are able to walk or to sta d up a bill to make by the methol described the fot por ton being attiched to the leg portion by a hinge. On the uter side of this boot there are cyclets to help provide the provided by the provided the side of the boot between the control to be upon the case of limited space a serew i used to exten of the lef into being obtained by

gra lually tu n g the eres

The increased a mea. de pense of this method a e me th n j stified by the good functional result Lve he the child's parents are i fo med at the beginning that the treatment vill take for mose it he eves a they gladly b ing the child back becas it high the child back becas to high the complete cure is possible without operation. The method is not a cut all sinc i mild case practically any method is good and is see e.e. e.h. dly any procedure is a tisfactor but as c mpa ed ith fortile procedure the superiority of the conservant e treatment with slight continuous ela tie traction cannot be too et it emphasis ed.

2 to p till the continuous ela tie traction cannot be too et it emphasis ed.

#### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Mast nd G n Ath desis of th Wrt (L th l d pgt) Bll 1 em S d 1 g d I 97 tl 489

Ms at has fond that the results of tendon tran plant t at the virst in case of latty of the jint are usually pr Mithough the immediate risult a coxell the improvement i of log mintan 1 % the dissission of plants and the successful Massatds use only the paulyte rist detoral halp and 1 %.

H stat that there are two pinos as to the post on of funct of the rist Some claim with Broat that x ten ion to 45 legr is the mot ad antageous point. Others pefer to minoble to band ist a ghit from the forearm bed unique that his post on best for the lumb call and interest one unique that the second of the se

t t b ut o degree of c tens n

The pe ation is pe formed throgh a horseshee h pd in 1 non on the dorsum the b se f heh trans r and d tal et th po mail and so the macarpal VI graud nal os the mad form the enlofth t se incs p mall alo g the boles of the rilus and uin to abv the tild po sses Bee u softhen ee tvop t tug the flevo tendos a vlar appoach not fa d Thee tensor te dons may be eas!

retracted becau e of their laxity they should not be cut The ligaments and periosteum at the dorsum are divided and dissected from the bones over the radio carpal joint with care not to destroy them

The ectioning of the bones is done with care. A chief rather than 1 saw is used for this purpose. The radius is first sectioned at about the place of its previous epiphyseal cartilage. The ilina is sectioned after the removal of the triangular cartilage. In order to prevent ulnar deviation of the wrist the section through the ulna is mide to pass from above and laterally downward and medially. The navicular lands and triquetrum are then chiseled and ome of the head of the capitate is removed with the navicular and lunate.

The bone ends thus bared are placed in apposition and the periosteum and ligaments which were care full, saved at the beginning of the operation are sutured over the posterior surface. This sutures are very important in maintaining the bones in apposition but to perfect the arthrodesis the extensor tendons are shortened by the method described by Maiclair being drawn downward until the fingers are in extension and held while shortening sutures are introduced.

The skin is then sutured carefully and the hand immobilized with an angle of so degrees of extension at the wrist. The cast applied extends from the middle of the forearm down over the palm and fingers. The tips of the fingers are left expo ed. This cast is left on for fifty days without change of dre sings or other attention.

One cale treated by Massart in this way is reported

GASVE who read Massarts paper stated that in cases in which because of the patient's occupation it is necessary to maintain some degree of mobility at the wrist the u e of an appraxius gives better results than arthrodesis but hen the patient is engaged in heavy manual labor arthrode is is the better procedure.

I ERAIRE called attention to the fact that club hand and other deformities are often treated very successfully by musculotendinous transplants

MICHAEL L MASON M D

Gaensien F J Sacro Iliac Arthrodesis Indica tions Author's Technique and End Results J 1m M 1ss 19 1xxxx 03

In an earlier article Caenslen reported four ca es of sacro lhac fusion by a new method. In this article he review is 6 e others. He states that in both tuber culosis and persi tent strain fixation by appliance would be middle done efficiently but there is no form of brace or support that will take the place of surgical fixation. In tuberculosis of the acro line joint in adults fixation is justified and in ficate 1 is on as the diagnosis is made. In the treatment of sacro inac relavation and strain artbrodesis hould be re erved for cases in which the condition is so painful or disabbing as to render radical measures importance.

Gaenslen describes the operative procedure re ports end results obtained thereby and calls atten tion to a diagnostic maneuver which has proved most valuable in the differentiation between sacro iliac and lumbosacral lesions and lesions of the right and left side

The diagnostic maneuver consists in hyperexten sion of the bip with fixation of the pelvis and lumbar spine The patient lying supine flexes the knee and hip of the same side acutely crowding the thigh against the abdomen by clasping his hands about the flexed knee This brings the lumbar spine firmly in contact with the table and fixes both the pelvis and the lumbar spine. The patient is then brought well to the side of the table and the opposite thigh is slowly hyperextended by the examiner with grad ually increasing force by pressure of the hand on the top of the knee. With the opposite hand the examiner assists the patient in fixing the lumbar spine and pelvis by pressure over the patient's clasped hands. The hyperextension of the hip exerts a rota ting force on the corresponding half of the pelvis in the sagittal plane through the transverse axis of the sacro iliac joint. The pull is made on the ilium through the \ ligament and the muscles attached to the anterior superior and anterior inferior spines As a result of the impairment of ligamentous support on the diseased side this rotating force causes ab normal mobility accompanied by pain either local or referred on the side of the lesion

In describing the technique for arthrodesis Gaens len states that the patient should lie in the semiprone position. In the cases of stout and shorty aisted per sons it is well to have the table raised in the center with the peak in the flank as in kidney operations This brings out the crest prominently If the table is not so raised and the patient has large hips the semiprone position produces a postural lumbar scoli osis and a crowding of the iliac erest against the costal margin so that palpation even of the iliac crest may he difficult Before preparation of the skin it is vell to mark the location of the posterior superior and posterior inferior spines for proper placement of the skin incision. Especially in the cases of stout subjects this procedure is distinctly superior to the location of landmarks by palpation of the sterilized and draped field. The posterior inferior spine usually is not palpable through the soft parts. It lies about 1/ in below the posterior superior spine on a line connecting the latter point with the trochanter

The fir time ion is made along the posterior two third of the libre or st curving around helmid the posterior superior spine and ending over the posterior inferior spine of the ilium. This rather large incision which extends through skin and subcutaneous fat to the deep fissera is neces ary to allow in a later step in proper refliction of the flap of hone and soft parts for the intra articular work. The wound margins should be freed and retracted so as to expose the crest to the posterior superior pine.

In inci ion is then made over the posterior third of the cre t and over the posterior uperior spine a

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sm ll murgin of fac a d muscle being left on the In f the r t to fa lt t the fuscal uture f lheptrrptn ftheilum is pl t flat ith a broad ch sel to a d pth of th If m th post ror supe ior spine t I fb ing frme l The o ter lafith the Literilt has the pleof then not be the normal bony led relinment the vilbere lly appart h thi tinth inth emp np t on the t bl tth t 1 h t rgall but the opr t a drigus liaton of the ana tm liti ith it The hilstagan tb l ulib hld mapl n t p p lulibhldinapln ill thtlat fth p t the lfth dium lh libd tlf d lighth ut ard d I lightly ut ard th 1 t fth to sup o p í the l ll ltt pint chall vs b dlv lt: l ntloughth ht Inspltt g the the histit trdoerthe pot r p nth 1 tinmineat d the splt t t ll s lndb thup arda dd l ti tl t li 3 th nti p t n r thi d 1 1 t th p t f 13 ft the 1 m t b plit to th llpth b ke le f It s ıdıl ilte the lipth fbt The out 1 f of t it the the the had gluteal muscles and ı L ftp t th fi tellate alls s far II Ih m 1 gp rt on of the post r l th iltfth th the chis I and al o fit I tih n 1 > king spac fo ex f th

ı lh p i l n lmark f th leaf o rl ing th joint s t tt k i \ the coulac j int is roughly s l t 8 I of b e c rresponding d! t ths > hac you tis markel t th t l gl fof the ih m and e 1 Th & 1 f the makt got of the tri The beine in long ex ngl ten l t if m the p t inferior spine d th t alth ate r pe o spine Anothe n l g t i ilm st pe pend cul ly frm the t I fth fricutto d p t on th t ı gth mdl adposte thrd The e lt g ngl f th ut ill b lightly I ss ghtagl lh t p nts ar th n joi ed lvathdh l t Th lt n ar a fi s vithin th act al ; t a a i utl e the latter fairly autl

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l int b g thus obtained g igt od pl if th ant ror

It 1 t e es a v t emo this tra gulara ea flone 1 o pec It : bett n fact t remo the l d sa 1 g th health p rt ns fo fill ng i th lf tltr Altridshis ac ene t pt I f th fagm ts When onc th artla f ce d ntif d n the cente of th t gi th tej t srelly pod Ina j nt th tube culous ds se the opaq what catlg p tially loo en d by granul ton tissue is readily followed. In several of the author's cases practic lly the entire sacral cartilaginous area was removed none piec Of the contiguous cartilari nouslaye s the l ver cover ng the sacrum is much the th Ler The iliac portion of the cartilage is removed n f agme t as the joint is uncov red vith the chisel and cu ette. After erad cation if the 10 nt in the mann rind ated healthy bo e chips emoved dur 1 g the co-rse of the operation are packed very care fully nd firmly to fill the gap completely. The de flecte loute le f of the il im is bro ght into appot on and held in place by a few into upted sutu es thro gh the dorsolumbar fascia nd muscle The cl re is c mpl ted by a subcutantous catgut suture and a slk ki utur

In ca e of tube c los a plast r spica is v o n fo ten or t 1 v eks and then a pel ic belt fn cas s of rela ation the p riod of plaste fi ation may be co id rably r d c d HE LEC VELL MD

#### FRACTURES AND DISLOCATIONS

C L The Ope at ve Treatment of Frac tu es J 4m W i 971 97 to v W R The Influence of W Surg ry o tl e T eatment of Fractures in G e t B tal

J 4m W 1 971 9 Blake J A T ct on and Susp n on J 1 Sp d k 9 7 1 tu of tl Sh ft of th Fem t JA 3/4 971 tr 96

Scupper states that with the present mp ov d techn que of surg ry the indicat o for op r ti e interi rence in the treatment of f actures a e greatly

increased and founded upon a sound and saf basis Anatom cal r po ition of fracture is impo tant becau of the r sultant better funct n and becaus of th legal importance of roentgeno rams. Oper ti f ati n allo earli r mov ment and the efoe earlier complet f n tion The ind c tions for ope a ti n ar h ed up n good hospital f cilit es skill d a istants a da thorough kno ledge by the surgeo of non op rati e as ell as operative treatment

Fractur may b classfi d int three groups

1 Tho n er operated upo uch as Colle fractures clavicular fractures and birth fractures Those always operated up such as fr ctu 5 with separation of the patella and olecranon irreducible fractures of the femur fracture of the head

and neck of the rad us th limitation of movement ce t n sp l nd obl que fractures f th leg and fractue of the scale in olving the astragalocal caneal joi t 3 The doubtful group such as factues f the

humeraf shaft hove the middle and f act res of hoth bones of the forea m

BRI TOW St t s that pr vious to the War many principles underlying the s cc ssful tre tm nt of

fr ctu es were not p ope ly app ec ted n Engl nd t de of the L ve p ol School Th War t ught the value of th Thoma spl nt the impo tan e of segre gation of fracture cases and the val e of teamwo L in fracture treatment

In the early years of the War the treatment of compound fractures was attended by a high mor tality because of lack of organization and equipment in the hospital This led to segregation of fractures and popularization of the Thomas splint

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5 Traction has an efficient mobilization effect because of the confining action of the stretched

muscles Reduction should be obtained as soon as possible Common mistakes in the treatment of fractures are the use of insufficient traction and delay of reduction

for several days Blake has been able to reduce nearly all diaphy

scal fractures of the femur and humerus by traction and suspension. In the few cases in which reduction by traction was prevented by the interposition of

muscle open reduction was done

Si EED states that the diagnosis of fracture of the femur should be made at the site of the accident and the treatment should be begun immediately By early fixation shock and tissue trauma are greatly reduced Speed outlines recognized opera tive and non operative methods of treating fractures of the femur RALPH SOTO HALL M D

Moore B H The Mechanical Action of the Perlosteum in Fresh Fractures J Bon & Joint g28 x 8

The periosteum of young bones has three layersan outer layer of interlacing fibrous bundles a middle or fibro elastic laver and an inner laver of fine connective tissue bundles-between which there are blood vessels and osteoclastic cells periosteum of adult bone the middle and inner layers are lused into one layer containing elastic tissue

The author's studies of the action of the perios teum in fractures were made on the leg bones of calve less than an hour after their removal from the living animal The skin and tendons were removed but the periosteum was left intact. The bones were

fractured by impact When the bone was fractured transversely the periosteum on the side opposite the breaking force was always torn The tear was transverse to the long axis of the bone and only slightly separated from the bone Occasionally a longitudinal tear occurred from the ends of the transverse tear

Reduction of an overriding deformity by hand with direct traction in the line of the long axis of the bone was very difficult. In lact the greater the traction the tighter the ends became locked together in the deformed position If the edges of the fracture on the side next to the intact periosteum were placed together by bending the bone with the fragments at an angle the fracture could be reduced by simply straightening the bone The periosteum then held the fragments like an elastic splint

Oblique fractures caused no tear or only a small longitudinal slit in the periosteum at either end of The periosteum could be stripped the fracture from the hone along the line of the fracture Because of the splint like action of the periosteum very little deformity occurred in this type of fracture Shorten ing of the bone of from 4 to 4 in was constant and a pull of from 30 to 40 lb applied directly to the bone was necessary to restore the original length

In determining the clasticity of the periosteum experiments were made on a strip 6 in long and in wide It was found that a pull of 6 lb produced 14 in ol lengthening and a pull of 15 lb produced /2 in ol lengthening In the treatment of fractures the pull is probably applied to a much shorter strip of periosteum and the limit of elasticity is reached much more quickly

The author concludes that in transverse fractures the elastic pull of the periosteum is an additional factor producing angular and overriding deformity The periosteum tends to lock overriding fragments by its mechanical action under direct traction and to cause angular deformity by its elastic a tion if the reduction is not anatomically perfect. When an anatomically perfect reduction is obtained the elastic action of the puriosteum tends to maintain Therefore in the treatment of fractures it is advisable to use manipulations which will take advantage of these properties of the periosteum

NORMIN C BLLLOCK M D

Dahl Iversen E The Frequency and Duration of Ostertic Processes After Osteosynthesis (274 Cases) and a Follow Up Study of 66 Cases of Fracture Treated by Operation (Ueber dc Haenfigkeit und Dau r o titt her Prozesse nach O teo inthese (2 4 l'aelle) mit Nachuntersuchung von 66 Faellen operativ behindelter knochen brueche) Hosp Tid 19 7 l 449 4 9

The author gives a detailed statistical report on 274 cases of osteosynthesis performed by different methods Ostentic processes were present in from 15 to 28 per cent of the uncomplicated fractures and 50 per cent of those with complications Pseudarthro ses were present in from 3 to 4 per cent of the cases The osteitic process became cured in the first four months after the removal of the foreign body in 52 per cent of the cases within a year in 80 per cent and in from one to three years in 20 per cent

In the author's opinion the most favorable time lor o teo inthesa is the first week after the occur rence of the fracture Prostheses which have re mained in place for six months without causing com plications may be permitted to remain since the occurrence of complications is not to be feared after small marg n f f s 1a nd muscle bei g left on the out r l p f th rest to facil tate the fascial utue f of cl su l h p t ri portion of the lum is the f ht flat s the broad h sel to a depth of

I fem the poter or uperior pine la ut lafb ng frmel The outer le fi th thik lt e ntalt ha etbepian of th ) at d t r ) t t th no mai bony land mark v llinm d 1h ll be sp ally appa ent h then tentle in the more posts on the t bl vth trl sh t o e ng tlb t th on r ar nd nling unl ton fth an t I Itt diff of Th h el tagar t the r sp n houll b het lin a plane Ill it that fth pt with lofth ilium and lildb diet If stand lights ut ard th hr t f th ant o prior pine f the I Ih latt p t can alvay be dly d thile the ghithe shet In splitting the ill mithe hill fit nt redoe the guerror it fin nothed to indeated the plot it tilling leelb thup ard unled n duit ntl t di i th ent e post rio th d ni sor sp ne to th [ t

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ŢΙ lh p ti f th n leaf overly ng the joint is t tt k l A th s il a jont is roughly 1 1 t glaes of bo e corresponding il t t th acr ha joi t smarked t nli gi af of theilu and re 1 Il gil f th n ki g out of the tri m fu Th ba li in long ex ΐ t t it n the p t or inferir spie di 1 th ant r tlı supe for spin Another ln 1 n log 1 r t d almost perpe dic l ly f m th m th nt i f th nr t cut to a dap nt n the c st j g th middle and p sten r tb d The it ny ngl f th s ut w ll be slightly less ght angl The t Poi tsae thin ioi ed thri h leut Th ulti area li s ithin th ct lj nt nd outl n th latt r fairly cc r t fs

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read ly follon ed. In several of the author's cape treally the entire scarcal cartilagnous area as emo ed in o e piece. Of the contiguous cartilage no stavers the layer covering the sacrums much the the cker. The inac portion of the cartilage is remo ed in fragments as the joint is unovered with the chied ind curett. After earl cation of the joint in the manner and cated healthy bone chip removed during the cours of the operation are jacked. exceptions are the cours of the operation are jacked. exception and the cours of the operation are jacked. The course of the operation are jacked exception and the course of the operation are jacked. The course of the operation are jacked exception and the course of the operation are jacked. The course of the operation are jacked exception and held in place by a few interrupted suture to open the course of the course of

In case of tubere lost a plast repication for ten ort. The eak and then a pelvic belt in case of relaxation in the period of plaster fusion may be one detably reduced. H. Darke Cov. M.D.

#### FRACTURES AND DISLOCATIONS

Scudde C L The Operat Treatm nt of Facture J. Im. V. 4. 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.

Scudder states that with the present improved techn que of u gery the and cations for op ratic interference in the t eatiment of fract res are greatly increased a d founded upon a sound a d at basic Anatomical r pos tion of fract rs are greatly because of the r sultant better function and because of the legal imprisance of roentge og m Opt at the restriction and because of the complete function. The indict to s for operation are based upon good hospital fact less skilled as issants and a thorough kno ledge by the urgeon of non ope at it easy. Ill soperative t attn int

Factures may be class fied into thre groups

I Those ne er op r ted upo u h as Colles
fractures clavicul fractures and birth fractures

2 Those always operated upon such as fractures with separation of the patella and ol cm o tre ducible fra tu e of the f mur fracture of the had and cck of the rad th I mulat on of mo em nt certain spiral and oblique fractures of thilg a d fracture of the os cale's nvol'n g the astragalocal cancal nt.

3 The doubtful gro p such as fractures of the humeral shaft abo e th m ddle and fractures of

both bones of the f rea m

Bussion at tes that n evanus to the War many neighes underlying the successful te time to fracture wer in typing of appreciated in E. gland outst de of the Laverpool School. The Warts in the valu of the Thomas splin the timpo tace of segregation. I fracture cases and the vie of teams ok in a facture treatment.

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Moore B II Flie Mechanical Action of the Periosteum in Fresh Fractures J Bone & Joint S rg 10 8 x 78

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Dahl Iversen E The Frequency and Durotlon of Ostetic Processes After Osteosynthesis (27 Cases) and a Follow Up Study of 66 Cases of Fracture Treated by Operation (Uber die Haeufigkeit und Dauer o titi her I roze se nach Osteosynthese (274 Fælle) mit Nachuntersuchung on 66 Fællen operati behandelter knochen

brueche) Hosp T d 19 7 l x 449 459

The author gives a detailed statistical report on 274 cases of osteosynthesis performed by different methods. Osteine processes were present in from 15 to 28 per cent of the uncomplicated fractures and 50 per cent of those with complications. Pseudarthro ses were present in from 3 to 4 per cent of the cases. The osteinte process became cured in the first four months after the removal of the foreign body in 53 per cent of the cases within a year in 80 per cent and in from one to three years in 20 per cent

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that length of t me \ 1 and end esult may be x jectel 85 pe cent of the cales n hich the pro the e lon t cau e complicatio s Lt (2)

Cott n F J The Tecl nique in tie U of Grafts in C s of Non Un on J B & J 15 g

Cott h aba lon d the use of the mas we graft of on u n be u cit does not offer enough loe ufcefrg I geneation The center of th gaft die an i nly the urf ce forms ew bo e To btas a much surface a p ssible he no employs chil fr m a aut genous graft obtained fom ril r er the pongy upp r end of the the I he fragment at the ste of on union are fr h e and the pen dup by angulat on to form 1 pace f rth graft ch ps After the chips ha e bee put 1 th fragment are traighten d again the hij leig q t bet cen them O er the sur fac th l f bo with pe i teum are laid va the m thod has hen followed is o ly thee i lures and t successful result ha e n me u th tit o employed by Cotton 3 r the pectur W 1 A CL

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rı. tio sugg t linth sart cl i nalog u t thefa a light tr ton of the lgam to th nf r d lar a t culat on des ribed by tl auth 1 , 6 It senti llvare ntutio f th b ular ligam nt

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Putti V E ly T atm nt f Cong nital Disloca tin of the Hip (P 1 1 p dll 1 a

the lat I ligam nt

A a ul cong nit l'isl cat o of the bip i not treated u tl the hld ib ut to vea id Th

treatment 1 delayed because of the bel of that the anatomical and mechanical cond tions for reduct o are better after the second year of age that a d slo cat on cannot be diagnosed before the child can

alk and that a cast cannot be applied before the

child has learned cleanl ness

The author is of the opin on the treatment should be gi en earlier while the parts are as plastic as pos s ble He says that a di location can be suspected from shi ht asymmetry which the mother herself may note a d that when it is once suspected it can be confi med by roentgen examination. Du i g the first few months of life the parts are so plastic that the usual ma pulations for educt on and the applicat on of a plaster cast are unnecessary. Abduct on of from 40 to 60 degrees is sufficient to bring the n ck or the ep physcal center fit has developed to the center of the acetabulum If the 1 mb is then kept in uffi ent abduction reduction vill take place

To maintain uch abduction the child may be kept seated on a wed e shaped cushion that spread the legs suffic ently and is removed o ly when the child is clean ed. The author uses an adju table apparatus v h ch he has devised. He makes a roent genogram of the h p every two months in order t det rm e the p ogre that is being m de and whether any adj stment of the apparatus s ece sary He h s employed this method in ten c ses I four of them a cu e was obt ned in from six to fou teen months R entgenog ams of these cured case a e included in the article. The six other cases are still unde treatment A DRE G Mo AN M D

Moo G A A Fle ed Pl ster Spica C se f r II p Factus 4 Sg 98 lz. vi

Ar w of the lite atur shows that I the opinion of mo t su g ons the best treatme t f r m dal f actu es f the neck of the fem r 1 the acti e losed method Since h eport i 1921 of forty two ca es in which the flexed spica vas used M ore has h d c ntin ed s ccess with the pro-

Under spiral or general ancesthes a the hip & ma ipulated t sepa ate the fragme ts. The lover extremity s then subject d to lateral and I ngtu I nal tract on nd fo cibly ny rted Aft r the pos tion has ben verified with the \ ray th k e 5 d hips are fle ed to a right an l The intern l rotatio being m ntailed the thighs ale then abduct da fra poss ble and a s gle spica is appled f om the nipple h e to the toe with re nforceme to e the butto ks and in th gro

The patient is allo ed to it up on the s cond day Flexion of the hip str tches the gluteus max mus nd medius a d forms a supporting hammock f f W P BLOUT MD the g eater trochanter

Finzi O Is I ted Fr ture of the Les e T ch nter (S ! f tt c tr) 4 h 1 l d 1 lt dlp 97

To the twenty three c ses of is I ted fracture of the lesser t ochanter which he ve been reported in the literature the author adds a case of such a fracture in a man twenty mine years of age. These fractures occur most commonly in adolescents either because young persons are more addicted to gymnastic exercises than adults or because fusion of the lesser trochanter with the femur does not take place until about the eighteenth year of age. In old persons such fractures may occur as the result of osteoporosis from involution.

In a few cases the fracture is caused by direct trauma but in the majority it is due to (1) more or less violent contraction of the iliopsoas muscle not accompanied by relavation of the contracted antigonistic muscles or the reverse (2) lack of coordination of movements (3) a rapid defense contraction which does not give the nerve centers time to bring about relaxation of the antagonistic muscles or (4) as in the vultor's case fatigue of such degree as to bring about a state of contracture of the antagonist muscles so that the force of the two antagonist becomes greater than the resistance of the lesser trochanter.

Generally only one fragment is broken off but in some cases the fracture is of the comminuted type the displacement of the fragments following the line of action of the iliopsoas muscle upward and a little

forward and inward

The symptoms vary in intensity but as a rule are sufficiently characteristic for a clinical diagnosis to be made with considerable certainty. However the findings of the physical examination should be confirmed by roentgen examination. The chief signs of the fracture are a lack of deformity with shortening of the limb and pain on pressure in the region of the iliopsoas muscle. Ludloff's sign. Schuelein's pain on extension of the limb and a swelling which is movable on extension.

In the treatment the fragments should be replaced following the line of action of the illopsors 1 placing the limb in flevion external rotation and slight abduction massage and exercise are indicated to facilitate the absorption of extravasations and favor callus.

Loefborg O The Treatment of Fractures of the Neck of rhe Femur 389 Cases on the Surgleal Service of the Municipal Hospiral of Malmo (Behandlu g der Fr ctura coll fem s 389 laelle in d cl rur, sche Metuling d. s t edilchen Krankenhauses in Malmo) Zent 181 f Cl r 1927 li 2 2

In the author's cases of fracture of the neck of the femur reduction is attempted as soon as possible In the majority of cases reduction and fixition in a plaster cast can be done following the injection of 1,2 cm of morphine. Reduction is always effected minually. It is nearly always possible to drive the firstments into one another by a blow of the first on the great trochanter while the other side of the pelvis 1 supported. A plaster cast is applied after padding with cotton. The foot is left free. The period of fixition is usually eight weeks for medial fractures.

and sometimes a little less for fractures of the lateral type. A case which came to autops, showed that wedging of the fragments requires not only re

duction but manual wedging

Of the fractures reviewed 675 per cent wermuchal fractures and the rest lateral fractures Bony union occurred in all of the lateral fractures but in only 675 per cent of the medial fractures but in only 675 per cent of the medial fractures whether the leg in inward rotation and abduction. Of the lateral fractures those due to torsion should be reduced with the leg in inward rotation and abduction splinter fractures should be reduced with the leg in abduction and a middle position and fractures at the angle should be reduced with the leg in maximal abduction.

After the removal of the plaster cast the patient should remain in bed until he is able to raise his leg with the knee extended. I assive movements are contraindicated only active movements should be permitted. I seudrithroses in young patients in good general condition should be operated upon if they cause pain and functional disturbance.

VALENTIN (Z)

Albee F H Late End Results in Ununited Fracture of the Neek of the Femir Treated by the Bone Peg or the Reconstruction Operation J Bo e & Joint Surg 9 8 124

Albee reviews the end results obtained in thirts say cases of ununited fracture of the neck of the femur in which in autogenous bone peg was used and forty four cases in which his arthroplastic reconstruction operation was performed. He believes that if weight bearing upon an ununited fricture could always be prevented bone pegging could be successfully applied more frequently.

In the cases reviewed the result was considered excellent when there was nearly normal mobility with normal stability the use of a crutch or cane was unnecessary and the patient was able to earry on strenuous activities and walk several miles with out pain or fatigue

The result was considered good when mobility was nearly normal stability was normal the use of a crane or crutch was unnecessary and the patient was able to carry on his usual activities without pun or future.

The result was regarded as fair when the patient was obliged to use a cane and experienced slight pain or fatigue

It was regarded as poor when the use of a crutch was necessary and activity was associated with considerable pain and fatigue

An excellent result was obtained in 90 per cent of the cases treated by bone pegging and in 75 per cent of those in which the reconstruction operation was

Most of the patients were under fifty years of age. The length of time that had elap ed since the operation ranged from a few months to fifteen years. The at cle cl de postop rat e roentgeno grams of fve cases treated vith the autogenous bo e peg and to cases teatel to the econ truct ve operating P C. C. DANN. M.D.

Lel man E P and Eskel s I II Facture of the Ta sal S aph d with Note on the Mechan im J B & J 15 g 9 8 8

Lebman au I Escleis report a ca co of actue of theta aslacaphol ifrom the 1 solence II discuss the mech nam producing the type of factue. They believe that su h fracture not prob ble vibout a ligament u tear. Ap a ble mech sam is (i) force if wo fit he for with a cult give try i the do all capho docu film ligment (a) transmission of the force in the as if the forthing the caph, lag; at the unit we dasharp for no amal anewle of the m diff de cunes form no amal anewle of the m diff de cunes form.

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# International Abstract of Surgery

Supplementary to

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# EDITOR'S COMMENT

THE acute surgical conditions of the ab domen that are seen so frequently par ticularly in the large hospitals of our met ropolitan and industrial centers call for an unu ual degree of diagnostic acumen and surgical judgment-diagnosti acumen that can piece to ether often from broken fra ments of in accurate observations told in a language difficult of understan lin a logical working conception of the patholo ical conditions present and surg ical jud\_ment that can temper the treatment to the lowered vitality an I enfeebled resistance of a patient frequently in critical condition from shock from hamorrhage or infection Too often because of the extent of the injury the fulminant character of the infection or the delay in eekin medical treatment the final chapter of the tors is a tragic one. For that reason it is all the more gratifying to read of the successful outcome of a case of abdominal injury such as that reported by Eliason (p 400) so serious in character as to seem almost hopeless at the outset. The patient had sustained a traumatic rupture of the small bowel at the duodenojejunal flexure was oper ated upon sixteen hours after the injury and had eaten a meal before operation which resulted in a flooding of the abdomen the partially di ge ted food when the omentum and transverse colon were delivered. In spite of these handicaps and an eventration of omentum and jejunum during an epileptic convulsion six lays after the operation the patient male a complete recovery

Some years ago hanavel described an approach to the retroperitoneal portion of the duodenum (SURO GNEC & DEST 1914 VMI 484) and I suggested the importance in cases of suspected 1vis real injury of raising the ominium and trans ere colon to rule out the presence of etroperitoneal injury of the duodenum or the mesenteric ves el. In case seen within a few hours after mjury a sub-erous checkoration from ettravasated blood or a beginning harmationa just below the junction of the me ocion and the posterior parietal peritonerum may be the only

visible evidence of a complete rupture of the retroperitoneal portion of the duodenum

Champions report of two cases of acute in fectious laring its going on to a rapid and life threatening occlusion of the air passages (p. 457) is an intere tin, account of another type sair is a lemergency skillfully and successfully met. The justion might be raised as to whether one would not be justified in the absence of a membrine of highliberia bacilli and of cyanosis in vaiting for the process to subside without the aid frinchiotomy but one must agree that fee conditions are more territying, both to parents and surgoon than the in partory dyspined and retry tion of the chest's all associated with full minant infections of the larvay and trached in your children.

Willis discussion of congenital cystic dilatation f the common duct with the report of a success ful ca e oc urring in a twelve year old boy (p. 474) stresses the rainty of the condition and the important of remembering the post ibility of its pre-ence in cases of recurring attacks of jamidice in childhood or early a lolescence assoonted with a palpable tumor mass in the upper abdomen. This is further emphysized by the fact that in a number f cases the diagnosis was not made at the first operation in I the chance of successful treatment thereby greatly liminished.

I senhoff and Lewis description of the patho I) 1 d picture in the thyroid gland of seven pa tients with hyperthyroidism before during and after the administration of jodine and their com parison of the ricture seen in these calles with that found in a large number of cases of nodular and hyperplastic gotter with hyperthyroidism (p. 449) liscussion of the technique and results of emb lect my based on a group of ninety five ca es colle ted from the 51 edish literature (p. 503) and thea de cription of a simple method of harting the vas to prevent the epididymitis which so frequently follows prostatectomy (p 404) are three of many other important contri butions revewed in this month's number of the INTERNATIONAL ABSTRACT OF SURGERY

# INTERNATIONAL ABSTRACT OF SURGERY

JUNE 1925

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

EYE

Brown E V L Sight Saving Class Work from the Standpoint of the Ophthalmologist 1m J Ophil 1928 vi 3 s 118

Sight saving classes for school children were first opened in Chicago in 1919 with six pupils Since then the enrollment has increased to 192

In the author's opinion children with a visual handicap should not be segregated from those with normal vision unless their corrected vision is less than 20/60 to 20/70. Children with poor vision should be supplied with textbooks having large type they require also more light more room and more attention from the teacher than those with normal vision.

Brown concludes that no detriment to the eyes has resulted from the sight saving class work and that nearly all of the children in the sight saving classes can maintain their place in school and be promoted promoted GORGE F MC VLIFF VID

Beigelman VI N The Pathology of the Lachrymal Clands in Chronic Epiphora Ari J Ophil 1928 xi 3 s 25

Bergelman believes that unsatisfactory results in the treatment of persistent lachry mation may be due in part to lack of attention to the screetory portion of the lachry mal gland. The object of his article is to present observations which prove the possibility of a chronic dacry o adentits with epiphora as the only symptom. He has examined pathologically six glands removed after sac extripation. In four chronic inflammation of various degrees was found. Cellular infiltration was very noticeable around the excretory ducts and there were diffuse smaller areas of infiltration in the interlobular and interactions connective tissue.

The distribution of the infiltration suggested exten ion of the inflammation by direct continuity from the subconjunctival tissue Beigelman concludes that the histopathological changes noted by him in the lachry mal glands are sufficient to explain hyperfunction of these glands with excessive lach rymition. The treatment of such hyperfunction should consist in X ray irradiation or in surgicial measures such as deep incisions cautery puncture or extirpation of the gland to diminish the secretion George R Welvier M D.

Verryp C D and Halbertsma k T A Two Cases of Parinaud's Conjunctivitis Br t J Ophil 1928 11 79

The uthor report two cases of a condition which closely resembled Parinaud's conjunctivitie except for the hlood pictur. The onsit was relatively acute with homolateral glandular involvement elevation of the temperature and enlargement of the spleen. Histological examination yielded findings resembling those described by Morax and Verhoeff No microorganism was discovered.

THOMAS D ALLEN M D

Tooke F T Some Fen ures of Glaucoma Complicating Iridocyclitis 1m J Oplil 1928 vi 3 \$ 97

Foole believes that glaucoma is a symptom sec ondary to some other condition systemic or ocular fle reports five cases in which it was clearly econd ary. The article includes photomicrographs show ing deposits of pigment and other secondary changes in the drainage angle. LYMAN A COPIS M D

Jacques L Cataract and Postoperative Tetany tm J II Sc 9 8 clxx 185

The author reports two cases of bilateral cataract occurring during the course of postoperative tetany and tabulates thirty two cases collected from the literature. Only four of the patients were males. In mine instances the cataracts were associated with changes in the hair or nails. In most of the cases they were discovered within two years after thy roulectomy. In the author's second case there were only mild evidences of parathyroid deficiency.

In d seu ing the prevention of postoperats e cataract Jacq es empha zes the necessity for prompt and all q t control of the latent as vell as the a tive man f tate ns f tetany. In on as the alminitation f path min n suffer t am unt to abol h ll n u omu cular ma fe tati 1 f lelto ar t the p gres of the catar ct

Forttn E P Doe the Fo e Unde go Clange Du ing Ac mmodatton? (L f mtmdfi sd tlamt6) pidd 92

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AUD I C M MD

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circle of rmed other anastomosing lines radiate These h es rarely run b youd the equato They re at fi t brick r d but later ha ge to bro nand n som crestog av 1 feofor an Istill I terto ht I q nil ther are other f n l s chang u h pgmc t l t 1 the l el r reti al lave s m tth & fth h oil ar as fchor ill atrophy

larg hit pl qu 1 l le p t nal hæmorrhages It g 1 Il I v d th t the str aks originate f om ham hage n the outer lay rs of the ret na or half The r m lift re c of opin on as to wheth the he thin the layer of the rena of the hore I work gt Clin they are the e ult of th I po to of insolubl cry tals fo me i by the braking up of the hæmoglobin hich are d pos ted 1 ng the b anches f the sh rt posterior layate n the proascular lymph spaces Coll n vpl ns furth r that th ub hor dal ham o rhag r'ult n tr phy f the ch rold

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LYM ACP MD

G scom J M Ang id Stre ks f the Reti a 1 J Optil 98 3 05

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fag Th as novible e idence of et nal hae rhgesorpr ou rtialo cho d'Idi The cond to a blateral \ sio a 2040 in a h i A p culia lat colo ed pigmentation of th Am f the fo ch adw e pl in d by C o the d matol g st ns lted sapgm t polfer t n du t n urot oph 1 flue es The Was r man t twa ngati e

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LYN Y A C PP MD

EAR

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GEORGE R MCAULIFF M D

#### NECK

Troell A The Azocarmine Mallory Straining of Goiters (Ueber Azocarmin Mallory Facrbung on Strumen) 1 ch f kli 2 Ch r 2027 cd 1 754

This article is a continuation of the author's previous reports on the azcarmine Millory staining in which he called attention to the difference in the follicle content of the Basedow goiter as compured with the colloid of the simple goiter. His muteril including that previously reported consisted of 161 cases. The tissue was first fived in susa. In the diffuse goiters the color of the follicle content of the hisproid was found to viry quite consistently with the clinical toxicity of the condition. The author summarizes his findings and conclusions as follows.

Clinically toxic gotters—Basedow gotters—usually showed a blue staining and clinically non toxic gotters a red staining of the follicle contents variations from this tendency were no greater than possible small variations in the parallelism between the clinical toxicity and the specific morphology of

he goster

Nodular gotters did not show this characteri tic staining to the same degree but blue follicles predominated much more frequently in the toxic than the non toxic ca es and red follicles predominated more frequently in the non toxic than the toxic cases This difference in stuning cannot be due to the consistency of the follicle contents alone as web like contents which usually stain red often al o stain blue A chemical basis for the difference mu t b considered Not only this difference but also the findings of determinations of the hydrogen ion concentration of fluid squeezed from gotters and our present knowledge of the eliment aspects histology and physical chemistry of gotter suggest a difference in the functional value of the follicle content of different thyroids and in different part of the same thyroid which may lead to a better understanding of the clinical aspects of Loiter and the effect of the usual methods of treatment

GLAS (Z

Rlenhoff W. F. Jr. and Lewis D. The Relation of Hyperthyroidism to Benign Tumors of the Thyroid Girind 1rd Sirg 928 W 79
Thomas II M. Jr. Nodulur Gotter with Hyper thyroidism 1rd. Sirg 1928 X1 117

REENIOFF and LEWIS studied 109 consecutive cases of nodular gotter and hyperthyrodism reviewed 910 cases of hyperthyrodism and studied 7 patients from whom sections of the thyroid gland were removed before during and after the administration of jodine

Before the administration of iodine marked hyper trophy and hyperplasia were apparent in all cases The glands could be divided into two groups In one group the acmi were normal in number but increased in size and showed papillomatous infoldings and in the other group they were small and more numerous but without infoldings. These types were frequently mixed in the same gland one type predominating.

The remi sion induced by todine was characterized by a change in the size and structure of the cells a decrease in the lymphocytic infiltration and in creased amounts of fibrous tissue. In this stage extrain areas did not fully participate in the regression forming small areas of active parenchyma whiteas other areas went far beyond the average degree forming the so alled involutional bodies.

The involutional bodies fall into three groups. Those of the first group show a formation of large epithelium lined cysts containing colloid those of the second group an incapabilated area of dilated colloid containing acmi and those of the third group actual disintegration of the parenchyma. Through pressure on the surrounding lobules and an increase in the stromm these involutional bodies suggest the appearance of fetal and eysite adenomata.

This type of involution occurred more frequently in glands with hyperplisia of the small acin type like large type with papillomitous infollings give risk to areas of hiperinvolution mide up largely of exist and enapsulated ireas of dilated colloid con

taining acini

The clinical improvement paralleled the extent of the involution. Cases in which there were spontane our remissions and exacerbations showed nodules which were identical with the involutionary bodies except that they were larger. During an exacerbation the cpithelium underwent papillomatous in folding in the existic and dilated acin. In the areas of hyp rinvolution during an exacerbation the peripheral acin. Were higher these acin, the peripheral acin. Were higher these acin, the care widely separated through further central disintegration of the body. The careas of hyperinvolution can be clinically detected as tumors, but do not represent true neophlasms.

Of 100 severe cases of nodular gotter 8 were cases of true beingin adenomate differing totally from the involuntity bodies described though the remainder of the glind showed hyerpilista and hypertrophy 18 as the set the nodular bodies corresponded to in volutional bodies the rest of the parenchy my being hyperplastic. In the remaining 63 cases the palpible nodules represented areas of hypertrophy and hyper plasas the remainder of the gland being normal. These areas were encapsulated the thickness of the capsule usually corresponding to the duration of the disease. In older patients these areas showed be at less the characteristics of hypertrophy and hyper plasas those of retrogression and involution. If these areas were shelled out or removed the by perthy roid is my disappeared chincally.

The authors conclude that hyperthyroidism is in variably associated with hypertrophy and hyper plasia of the thyroid parenchyma either in its total its or in circumscribed areas. Noduks in these

glands are due in the majority of cases to areas of regression which become encapsulated and enlarged as the disease process progresses. In a small per entage of cases the nodules represent areas of byper trophy and hyperplasia in an other vise normal thy roid and n only a small mi ority of cases true he nign adenomata. There is no proof that benign adenomata gi e rise to hyperthy ro dism

THOMAS analyzes the ty two cases of nodular gotter assoc ated vith hype thyroidism but without the typic l p cture of exophthalmie go ter H d vides these cases into two gro ps tho e of patients b low and those of pat ents above forty five years of age Eleven of the thirteen younge patients showed typical hype plasta and hypertrophy of the thyroid gland O e patient showed a small amount of hypert ophy and hyperpla is and p e ented climcally a doubtful picture of hyperthyro dism Another p tient ho ed a typical fetal adenoma involution of the gland without hy pertrophy and hyperplasia and locali ed areas of hypert ophy and hyperplasia

In the nineteen pat ents more than forty fi e yeas of age there was much less evidence of gland lar hyperaetiv ty but on ea eful sea eh hyper trophy a d hyp rplas a we e found in sect o's in every instance. El en of these patients suffered from heart ds ase Of the ten patients who r ce ved todine thee showed marked improvement three showed slight into overnent two ecesy dino benefit

and two died

The a erag hamoglobin content of the blood of the older patients was 66 per cent a d that of the you ger patients 74 per cent These estimates havever included two patient with seice econd ary anamia. The author is of the op mon that the xtra load placed on the e reulation by the hyper there dism is ors not only decompensation but aloarie n the basal metabolim. He belie e it probable that there is a close parallelism hetween the

amount of hypert ophy and hype plasta of the thy roid gland and the se e ity of the symptoms of thyro ISM & MD toxicosi

Halnes S F Ce t n D fficulties n th D gn sis of Ex pl thalmi Gotr JI Stt W S

Exophthalm c go ter 1 th o et c llv defi ed as a d sease s oct ted with st mulation of the th rold of nkno n origi which r ult in the prodiction and deli ery to the ti sue f abn rmal the oid secre t n and n r acti lly ll cases inc eased n rm l thyroid secr t on The symptom f the d sea e nclude thos dp d nt upon an 1 crea e in the basal metabol sm and ce tain characteri t c phe nom na whi h are presumably dependent pon the abnorm 1 sec et on The e are ophth lmo sta e the charact 1st c psychic stat s usel s pu po ef l mo ements and the t ndency toward the de elop m at of gast o intesti 1 cm i with comiting and Frequently the finge nails and toe als are partly and rr gularly separ ted from the na l bed

The symptoms of hyperf nctioning adenomatous gotter are dependent upon an e cessive quantity of normal thyroxin in the tissues

Determ nation of the effect of sodine admini tra t on is of value in the different ation of the t o di ases and in the establishment of the presence of e ophthalmic gotter. After the administration of 1 dine in sufficient doses the prog ess of e ophth I mo is stopped the useless purpo eful movements the psych c status the stare and the vomit ne of the c isis a c ntrolled and in most cases a dop c urs n th basal m tabolic rate. The effect of sod ne adm n t ati n pon the basal metabol cr te t of value only when several consecutive tests are made to d term ne v bether the test 1 truly basal

Difficult es in the differential diagn sis are fre quently met in neuroses e sent al hype ten on

and Park n on syndrome

In the eases of pat ents wh are er ously ill any combination of seve e gastro intestinal and ca do vase lar d sturbanc s should su gest the possibl ty of hyp thyroids m Hyperthyroidsm shold be n d ed lso n case of dahetes not respond ng to

nsulin a anticipated a d in cases in which the r act on fite operations other than those on the thar digland is out of p opert on toe peetat o s

In exophthalmic gotter operation should al ass be preceded by med cal care. In the author's cases the pat ent is adm tt d to the hospital for rest and ca eful control of the d et for at least a eek before the operation Whether the patient is told or not that an ope ation is to b done depend up n the india dual case but one of his near r latives i 1 Durn th wek helo e the operat o a formed eareful study of the gastro ntesti al cardi c ne tou and general ondit on a mad In some cas s the basal metabolism is determined but th is not a outine preedue as it som times ca ses mark din rious disturba es Alght diet is gi en St mulant are avoided Large quantities of fluid are admin tered and one half hour before the time at which the operation is t be perf medult mat ly a p nt of aline solut on 1 g ven duly by rectum

L gols sol tion i gi en n 3 n inim do e thre t mes a day Large do s nd the admi strat on of the smaller des fo a peod ingrthan fourt ? d ys increa e the symptoms D fi r nt types f gotter eq i e diffe ent f ms of tod e In the treat m t of collo d g iter simple comp unds such s od de of ron are sed R p dly ner a 1 g or re r ring ad n parenchymatou g ter req ires thy oid ext act Exophthalm c goit is benefited o ly by I ugol s solution odid s ha e no effect pon it nd thero d e tract ner a e the hyr ribyro di m Lugol's sol t on is benefic 1 but does not effect a

ry poor a ca di When the c rd ac cond t n 1 ologist is consulted As a rule the adm t at n of d gitalis o quimidine will contr l th heart condi

tion. In the cases of nervous patients sedative drugs are occasionally indicated for the relief of insomnia.

\ray treatment does not obviate the necessity for operation but in cancer it is of great benefit It does not increase the difficulty of operation

The selection of the time for operation is of great importance. It is rarely necessary to operate during the first six months of the discuse as during this period medical treatment is usually beneficial. In evere acute cases, however, an operation is done if the improvement under treatment with Lugol's solution is slight. As heat has an unfavorable effect on patients suffering from goiter operation is not performed during the bot summer months.

Three clinical types of toxic goiter are recognized

I The condition that occurs as the end result of colloid goiter Patients with this type of goiter react well to treatment operation is not associate l with much risk.

2 Gotter associated with hyperthyroidism from the beginning Patients with this condition show marked improvement under preliminary medical treatment and make a good recovery following operation

3 Gotter appearing at about the menopause Patients with this condition are extremely nervous stand operation less well than others and convalesce slowly after operation. Their condition can

be much improved by pre operative treatment. In the induction of anisthesis chloroform should never be used as it is almost a specific poison. In the author's cases the induction is begun by the rectal administration of 3 oz each of ether and olive oil. This is given in the patient's room at the time at which the saline solution has been given three quarters of an hour before the time for the operation. In the operating from the anisthesia is continued by the administration of a small amount of ether on an open mask or by the use of warmed ether vapor.

Whenever possible a considerable portion of the gland is resected. All of one lobe the isthmus and the lower quarter of the other lobe are removed and the vessels of the superior pole of the remaining lobe are glasted. In every case a drainage tube is inserted.

After the operation the ether and olive oil are washed out of the rectum Sufficient morphism and atropine are used to control resilessness and large quantities of water are given at first by rectum and later by mouth Lugol's solution is of value to control postoperative hyperthyroidism Quiet and coolness are immortant

The immediate mortality is 5 per cent and the late mortality under 2 per cent. In the authors cases a complete cure was obtained in 55 per cent and sufficient rehef for the patient to earn his living

in 81 per cent

The postoperative course passes through the following stages (r) the stage of reaction which lasts for three or four days (2) the stage of primars

improvement which is manifested within a fort might of the operation (3) the stage of primary relapse which occurs as a rule when the patient returns bome and lasts for from four to six weckand (4) the stage of apparent cure which is reached after a few months Marcus H Horarr M D

## Dunhill T P Anæsthesia in Thyroid Surgery P o Roy Soc Med Lond 19 8 vt 345

The induction of anæsthesia for thyroid surgery may be rendered difficult by compression of the tracher in the neck tracheal and bronchial irritation or chronic bronchitis associated with a toric condition causing heart failure acute toricity causing graft mental uniest or extreme tachycardia or both or associated conditions such as uncleanliness of the mouth or tonsillar infection.

The following types of anwsthesia nave been employed by the author

t Ether (a) open method (b) closed method (c) vaporized method (d) endotracheal method (e) rectal method

Nitrous oxide and oxygen (a) alone (b) combined with local anæsthesia (c) combined with ether

2 Chloroform

4 Local anæsthesia both local infiltration and

Theoroform anasthesia is dangerous but its employment gives a freedom from bleeding not to be obtained by any other method of general narcosis. Ether has rightly replaced chloroform in the great majority of cases. It may be given in a number of ways either alone or in combination (i) on an open mask (2) by a closed method (Clover apparatus) (3) vaporized and warmed after it is vaporized (4) embotracheally or (5) by rectum All of these methods are safe and effective. Ether given by any method tends to increase bleeding, which is trouble some. Dunhill prefers its administration by the endotracheal method but has found the rectal method of value in ome cases.

Nitrous oxide with oxygen is a most valuable anesthetic Local anesthesia gives a practically bloodless operative field and therefore saves much time during the operation

In cases with established auricular fibrillation local anasthesia is best Morris H Kany M D

Champion A N Acute Stenotic I aryngitis of Infectious Origin Texas State J W 1928 xxiii 669

Acute stenosis of the larynx produces alarming symptoms. Its causes vary. The author reports two cases which simulated laryngeal diphtheria hut were due to an undetermined infection.

The first was that of a boy twenty two months old who three nights previously had had a sudden atrick of coughing and respiratory distress with a temperature varying from 100 to 103 degrees I The cough was of a harking character but not evert The voice was husly. The dispinca was

so extreme that the child was un ble to sleen at night. On the second night he re er ed to coo un ts of diphtheria antitoxin. When he as sen by th author the respiratory rate was very rapid and there was marked inspirato y dy pnor with retra tion of the tern m and bs but no cyanosis No membra e or exudate vas v s ble n the fau es or pharyny E amination of the chest as negative cept for an aspiratory heez \ ave amination of the chest did not show a fore gn b dw. The thymu was ot enlag d. The at and lary geal cultures cen gat ve f ba illus d phthe re b t positive for staphylococci st eptococci and p eu The arytenoid cartil ges a y piglottic folds v nt cula bands and subgl ttic mucosa yere r d and s oll n and only a sit like aperture remained for espi ton There was no membr ne or evudate Tracheotom, vas performed and as follow d by recovery

The second case as that of the tynb throf the first pat ent a d had a very m lar h story nd

The cause of the condition in thes cases i un knovn but was probably a st eptococcus infe tion To explain the m ked changes in the la vnx the autho suggests that other the causate had a predil ton for the larvn rth p tents had a heredita y weak s to infe tion of the larvinge !

In the dagno 1 the cond ti n m st be diff en tiat d from larvageal diphth ria the early t go of measles or sarlet f e bronch pneum fluenz angi neuroti cedema bulbar pal post d phtheriti p raly is and for ign body

In the ces rooted the filding os rest d

chefly p the la v goscopi fi d ngs Th ind cato s fo treatm t are cl a

re no spec fic th peutic me ures I'h mmediat probl m s to p ov de ample breathing p c and this i easly a omplified by trach time tubatio is unsat sfactory be ause the tube trau mati s the tissu s and is difficult to int duce and kep n plac nl there i vey grat I nger of aspiration on umon a Tra h t my ho ld b don arly and should be plann df hen the p tent finds t necessary t bing th a ssort m cles of e pi ton nto plv RIBS

Arau S L C nt ibut on to the Study a d Treatment of L yng al P pillom ta n Clil dren (C t l 6 al t d y tr t m t d l ppim i g Red st 1 0 7 1 570

Laryngeal papillomata are charact rized by a c nn ct v t ssu ent and an outer one of p thefium The ccur n ea ly childh d and e cur enc is very freq ent after any m thod of tr at ment H tolog cally they re b n gn but cl n c lly they are danger s b au e of thei nt riere ce ith cspi ton Their et ology s kno

The chi faymptom re co gh and dysp cea The

cough cur nly hen the pap lloma excite a The snoe pecto ation rpu The a thoralvi the pactitio er to e dany child ith aph a to lary gologi t The tumor c ng ne lly b lag d by fir et larving copy Arauz u es th Killian t be as modified by P ez and makes the e minat n ith ut a e thesia

The pog sseg difpoperte tmentisgi n in the fir t p riod of dy phonia. If t eatment is not g v n u til late and trach otomy is nec ssars b caus of persitence f the dip ce after moval

of th tum r the prog os s is doubtful Local and gen al medical tr atments have surlly pro I uns cessful It not true th t tach time usader as in the sie of the tum I p tt gth I in at et The tumor per st a l e nc cs n si afte this operat

and th tri h ot my tube mut b vorn perma n ntly T heotomy sho ld be do e only as an lyspnæa

em gency meas r torli m re d ge than L vng fis ure t lvcs tra heotom; and d s not peet e r nce Roul ha eport d case i hi h th s p rat n

ent n t mes The uth p formed n the cas s 1th po la ungofi u Som c llent res Its from th of radium have b n pot d but th uth rhas ginthis m th d up b cau h found it effects e and ass ciated with the lang fs ris mpl cations. The bist tratme t b blevs is dit in gosc py with r mov l f the t m If n a v th op rati m v b ep at ! In s me of th authors ca s ther ha bee n c u ef r fo r or five years

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# SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Magnant J S Traumatic Cerebral Hernia (I hernie cérébrale po t traumatique) Re- de 1 r Par 19 7 d 1 5 6

From experimental work on dogs, the author concludes that the development of a traumatic cerubral hernia depend upon a lesson of the dura mater subjacent to the defect in the skull attration of the ererbral tissue and infection. Secondary factors are examined organization of the traumatized area blood stassy with edema and macroscopic or miliary cerebral abscesses near the region of the cranial defect.

After the trauma there is a vascular ædema which later becomes inflammators. The development of the ordema is accompanied by an influx of crithro cytes leucocytes round cells and undifferentiated cells. The e cells play two roles. By reason of their considerable number and by their struggle against the infection they cause a growth of the cerebral substance from below upward. The clot shows an influx of very numerous macrophage cells rapid organization of a tissue of budding granulations and development toward the formation of a cicatricial connective tissue. The selective tissue arranges itself obliquely converging toward the top with blood stasis and cedema and forming averitable constricting ring around the cerebral zone. Through this ring the hermin pushes and its size is increased by progressively increasing venous stasis

Cerebral hernin is most dangerous when it occurs in the motor zone. An ab cc s below or near the cerebral prolapse increases the size of the hernia and

may necessitate further operations

I roph lactic treatment and several currents treatments are described. The author recommends the Lenche operation. In the first stage of this procedure cutaneous flaps are folded back, around the berna, larged by trephination until healthy tissue is teached and the pecked and lesions of the durn mater are expo ed. In the third stage tampons of gauze are placed around the herma. At the end of lifteen days the herma beguns to diminish in size and within a month it disappears.

If the cranal defect is the size of a franc piece and sturted in the front-il or parietal region crimo plast) should be done. If the defect is the size of the palm of the hand the patient should wear an external plaque beld in place by brinds. When the defect is relatively large, a metallic plaque or dead human bone should be employed for its closure. When it of moderate size preference should be given to an autophastic surgical procedure with the use

of a pedicled flap or an osteoperiosteal or cartilaginous graft

Four of I eriche's cases and one case treated by Chavannaz are reported in detail ANN L PAGE

Bulado M Morea R and Donovan C Roent genography of the Third Ventricle (1 a radio g atta del tercer ventriculo) 1rch orgent de ol 9 1 3

The authors studied the size and relations of the third ventrick in a patient who had died a few hours previously of tuberculous peritonitis. They report

their findings in detail

For the direct injection of air into the ventricle for centriculography they place the subject with his shoulders at the edge of a table and his head hanging over the edge and resting on a cushion. The roent genograms are made with the use of a Coolidge radiator tube 30 ma of current a 4 / in spark gap a distance of 8 in from the tube to the plate and an exposure of two seconds For a lateral roentgeno gram the incident ray is made to fall at the upper border of the ear the head being maintained in the horizontal position. When an anteroposterior roent genogram is made the ray falls at the level of the glabella the head being held in a sagittal axis with the chin flexed on the thorax. In order to prevent distortion of the picture great care must be ever ci ed to keep the head in position. The authors are now working on an arrangement by which the pic tures may be taken with the tube beneath and the film above the skull. This will give pictures that are clearer and nearer the normal in size

ALDREY G MORGIN M D

Brain W. R. The Use of Hypertonic Solutions in the Treatment of Increased Intracranial Pres sure B t H J 19 8 1 86

The author gives a brief but quite comprehen sive review of the use of hypertonic solutions to lower intractanial pressure the condition under which these solutions should be employed and the best method of admini tering them in each type of case. I fee Off after M.D.

Pancoast II k Experience in the Treatment of Brain Tumors by Irradiation During the Past Thirteen Years 11 J R extgenol 1928 xix 1

The article 1 based upon forty eight tumors of the cerch llum. Twenty were classified pathologically. Of the e-ten were infiltrating gliomata five were cy-tie gliomata one was a neurofibroma and four were endothelomata. Eventy five of the forty eight patients are living. Five of those who are still alive were treated more than five years ago. Evelve patients are known to be dead.

Intra anul tumors are especially adapted to radiation therapy. They grow sloully and arely metastas ze. The up at ul r movul does not cau e the unto a drult that f llov the part al removal of tumo sel hr in the b ly. A large proportion of brain t m s ar mal up of cell which are more susse; tile to adiation then normal cell and the no mal t ue sur unding such tumors s for ly. r tunt a lab t n.

Li a lditt n t the u uil dangers attending adia tin else hr th bolv rid tion f the ban may be att led with spallager if dum nedlesa empl i E pe mintal orkh sho i that the distuit n of mpately small a ea of n mall bants e miv be follo ed by de th

The betr sult fradit nex be obtained only be loe ope attom bits, on the radol gist neuro su gon and new pathol git Accurate locali a tion it humo is v. is able. The amount of ben fit that r s it from the de oppression by the su g n i p poli mutcal b t s doubless as great a that prol d be the adaption. Att mystes huld be male by the neuropathol gist to deter more the rail n t it v of the different types of time.

In c n lu ion the author tates that t s no mo e justifiable to spak f u s of brain tumor than of u es t malg ant go the lewhere n the body CE ESII HE OCK M D

Pu nte J J Oland R and Do Ing E Mor ans Syndrom Unilitie I Paclym a ngit and A In idt int plant L podol is d m d M u !! I l p q m git dt l p l l ! q d | R Sor d d ! S d ! 9 7 3

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partial lam nectomy of the s xth cervical vertebra was done. No pulsat on could be seen. The durative a greatly thickened and there was an adhesive a achnoiditis with small cyst c collections of fluid. This changes wer nost marked on the right side. The meninges we copened and the posterior rost hich e compress din the process we eitherated. The pinal c d bich was normal n color was not touch d.

R co e v w s une entful and the patient vas gratified he the greate strength and mobility of her ight arm A EY G Mores M D

# SPINAL CORD AND ITS COVERINGS

Elsberg C A E tradur l Spinal Tumo s-P

m y Second ry Meta tatic S rg Gy

Ob t 9 8 1

El berg state that ti of value to group spinal c rd tum rs into extradural and intradural growths and to d vide the intradu all growths into the e tra m dullary and the int amedullary

Improfement in the techniq of for the operative emo 1 fe trainedullary tumors—in which the d 1 first in 1 d without injury to the arachinol —h s sho n that som of these tumors be e tirely outsid 1 d others inside of the arachinoid

The author enumerates the arrous st uctures from h ch spinal c rd tumors may ar se and to which the may be attached and d cusses the n menclatur poposed by arous pathol gsts He belie t probable that tumo s c lled endo and amchoid thehomata meningiomata fibroblastomata are de ed from eells which were no mally destined to form p rt of the arachno d but ems ned with the cell groups finally differentiated nt the cell of the dura mater. In the authors te m nology used by Penfieldp nion th mening at fb oblastoma permeur al fibro bla toma and neurofibroma of von Reckling hau en is the best proposed. The differe tiati n keckl nghausen t mors from the solitary of the permeu al fib oblastomata 1 an important ad van n the histological classification of encap ulated tum r of the ner ous system The t rm me 1 g I fib oblastoma is a good one becau e gros ly tum of this type may be att ched to arv of the th e membranes

Of 70 tum rs operated upon in El b rgs ch ie vl s of mi amed llary and metastatic extra lu alg th 46 (6 per cent) e e e trad ral and p n rial fib bi tom t co stituted 8 pe cent f t t mors in de of the d ral sac but only 17 c nt of th t mor ot d of that memb an m ta and chondromata e nt it the 6 per

nt of the ext ad ralt mors but only 6 per cent of the int d sile tramedull 3 g owth The gr wth f the t ad al men geal and pe 1

eur al fibrobla t mata is slo nd in mo t cases th gns of inte f r ee with c d fu ction advance l ly Sarcomata which a e rarely ntradural grow more rapidly and either cause pressure upon the dura early or more or less suddenly extend into the vertebral canal through the intervertebral foramina or by bone destruction Not rarely second ary metastatic growths cause an acute softening of the spinal cord through interference with its blood

supply

A short history suggests that the neoplasm is extradural Radicular pain is less often an early symptom in cases of extradural expanding lesions because such growths do not often begin in the sheath of or near the nerve root. Not rarely the interposition of the firm dura and of a buffer of spinal fluid causes the early cord dis urbances to he vague. A flaccid paraplegia occurring within a few days of the onset of weakness of the limbs is noted almost exclusively in malignant extradural disease

Contralateral motor or sensory disturbances or a reverse Brown Sequard syndrome are observed most frequently in cases of extradural tumors

Changes in the bone structures observable in the ray films occur in more than one half of the cases of extradural tumors although bone destruction is not always demonstrable with the \ ray Such changes are evidenced by widening of the canal a localized defect in one or more vertebræ scoliosis at or above the lesion the shadow of the tumor itself or a sinking together of the bodies of several ver tebræ In intradural growths with the exception of the giant growths of the conus and cruda equina bony changes are rarely noted in the roentgenogram

In most cases manometric studies of the spinal fluid have shown a more or less marked spinal subarachnoid block. The exceptions were eases of vertebral chondroma derived from an intervertebral disk The spinal fluid was often yellow and con tained an excess of globulin or total protein but the increase in protein was never so high as in intradural

compres ion of the cord

In cases of extradural tumors and of intradural tumors which are attached to the dura the with drawal of spinal fluid is often followed by a distinct increase in the subjective and objective signs of cord disturbance The lumbar puncture may there fore clarify the picture and should be preceded and followed by a careful neurological examination

Compression of the spinal cord by tumors not derived from the cord roots or membranes is of fre quent occurrence Such growths must be grouped according to their location and origin Many extra dural spinal tumors begin in the bony framework of the spine or in the adjacent soft tissues They may be primarily within the vertebral canal or may invade the extradural space secondarily The histological structure of these growths is subject to considerable variation

If the variations in the clinical course of extra dural tumors are to be understood the neoplasms must be grouped not only according to their his tological structure but also according to their rela tion to the vertebral canal From the latter view

point extradural tumors may be divided into (1) the primary extradural (2) the secondary extra dural (3) the metastatic extradural The author discusses these three groups in detail. Of particular interest in his series of cases were seven chondromata derived from intervertebral disks. Such tumors are small hard growths from 1 to 1 / cm in length which arise from and are firmly fixed to the anterior wall of the vertebral canal They have been found only in the cervical region and compress the dura on its ventral aspect. No bone changes were visible in the I ray picture and in many cases there may be no subarachnoid block and no change in the spinal fluid As a rule these growths must be approached by the transdural route. If the longitudinal extent of the neoplasm is so great that its limits cannot be exposed by the removal of three or four arches it is probably irremovable

GILBERT C ANDERSON M D

## PERIPHERAL NERVES

Towne E B The Prevention of Injury to the Mu culospiral Nerve C I forms & Il est Med 10 8 XXVIII 73

The author calls attention to common errors in the technique of operations on the humerus which are associated with danger to the radial nerve. The most frequent error is improper placement of the When the incision is made incorrectly the unseen nerve may be divided included in a suture or crushed in a hamostat. In the open reduction of humeral fractures the nerve is often left lying upon the ruptured periosteum so that it is included in the callus

for the surgical treatment of osteomyelitis To the advocates Henry's incision by which the entire haft of the humerus can be laid bare without danger to the nerve To prevent inclusion of the ner & in the callus following the open reduction of a fracture he advocates the interposition of live muscle between the bone and the nerve

I RIC OLDBERG M D

#### SYMPATHETIC NERVES

Periarterial Sympathectomy in Simeoni Fre zing (In impaticectomin periarterio a nei con elamenti) 1 i lal di cl 19 7 vi 1 76

The author reports experiments on animals in which periarterial sympathectomy was performed after frost bite the operation being done on the same side as the lesion in some cases and on the

opposite side in other

In cases of serious lesions the ulcerations were sometimes affected favorably by the operation but the benefit was only temporary When the lesion was less seriou and particularly when it appeared late and was not very deep sympathectomy some times aided repair. However it did not retard the development of lesions due to freezing. When it was performed on the normal side it did not have any

cff ct on the dt truct ve pro ss on the other side It as b nefic al only hen t as p nformed on the same le as th ls and the Isom was not ve rious The author; un bl to say whether it had any eff t on the ap dity of el mination of the neet t one.

#### MISCELLANEOUS

Reyn Id  $\Gamma$  E and Stat J K. A Study of the St ucture and Function of the Int titi I T ssu of tle C at 1 Nervou System Ed b 41 II J 9 8 49

The authos rivbefly the mbrylgvnl hastog of the nrous I ments of the cell. They ceard taprobable that the interact issue an impressed for the probable of the interaction on the probable of the interaction of the interactio

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tryt Olgod nloglicilar milrthanat t anih ferp thyrrabud t enstituting the majo tyoftheitrittinicil f thee tink ousy tm. Thya vyplintfi in young nimals and in the period of max mal myclinization and may be concerned in the secretion of myclin

Microglial cell are small and po sea neither fibe s nor ascular footplates. They are scatt efthroughout the central ner ous system but are most leint full an the g ay matter. Up to the time of birth they are feet but d ring the first few veeks of postnatal lie the in number creases servapidh. It is the edition of the season of particular season of particular distribution of the season of the sea

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Undr norm I condt s Del Rio Hortegas mogl do sn take tril sta but he its phago vt and amedoud acti ntv stimulated by indammato at take them nt nely The cell le ed from the end th lum and the per asc la them crops ont bute to arl the farm to fth g mul dipo b lis in the are fon diffamm torv p so of the brands pal ord flamm torv p so of the brands pal ord the time it tumo of the entraine ou system vd performant in a large processor of all k distake the tain the six if ronnetti te this mkg it possibl t lete mine thir tent evin the ught he men ges The type of clis fou dare

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I REY G M RG MD

# SURGERY OF THE CHEST

## TRACHEA LUNGS AND PLEURA

Lee W E and Tucker G I ostoperative Pulmo nary Atelectasis Itlinite II J 19 8 xxx1 84

The authors believe that a great many postopera tive pulmonary complications which are called pneu monia are in reality atelectasis. They distinguish three types of atelectasis-the massive the lobar and the lobular

The etiology of atelectasis is unknown but it is generally agreed that immobilization of the din phragm and bronchial obstruction are important factors I lugging of a bronchus causes absorption of the trapped air by the circulating alveolar blood which results in collapse of the portion of lung

corresponding to that bronchus

The authors base their conclusions on autopsi findings and the observation that the removal of obstructing secretions from a bronchus by aspiration frequently causes the rapid expansion of an atelec tatic area of lung. In experiments on a dog which had been subjected to an operation on the upper part of the abdomen under ether anasthesia they were able to cause immediate postoperative massive atelectasis by injecting into the right main bronchus the secretion aspirated from the bronchus of a bu man being suffering from the condition. In the dog the atelectasis involved the entire right lung

The onset of atelectasis is sudden with a sensa tion of pain or tightness in the chest dispnæa or tachypnoa a sudden increase in the temperature pulse tate and respiration cough with or without expectoration profuse sweating eyanosis displace ment of the heart toward the affected side and asymmetry of the chest the affected side being relatively contracted and the sound side expanded

Dullness is found directly over the collapsed lung but the thoracic space unoccupied by the collapsed lung is hyperresonant and may be tympanitie. In some cases vocal fremitus and breath sounds are diminished over the collapsed lung In others these signs are increased and the breath sounds are tubu lar or amphoric in character and bronchophony and pectoriloquy are also extremely well marked. It is suggested that the difference in signs is dependent upon the patency of the bronchi the greater the patency the greater being the increase in the breath sounds In general the type of atelectasis in which the bronchi are not patent represents the earlier stage of the condition

ray examination is of importance to confirm the diagnosis The heart trachea and bronchi will be found displaced toward the affected side In cases of massive atelectasis the thoracie spine is curved laterally with its concavity toward the affected side and the diaphragm on this side is elevated The

lung on the affected side show a localized or general mere is in lensity while on the sound side there a very marked decrease in density due to com p nsitory emphysema

The treatment suggested for the massive types of atele tasis is bronchoscopy under cocaine local anæs thesia combined with a hypodermic injection of morphine Ceneral anasthesia is contra indicated By means of bronchoscopy the bronchus or bronchi plugged with secretion can be located and the secre tion removed by aspiration \s a rule this pro cedure must b repeate l as the atelectasis recurs pr umably because of the impossibility of aspirating the secretion from all of the smaller bronch: When the cough becomes productive aspiration is no longer necessary

The prognosis is usually very good. This i true even in the massive type provided the condition is undateral FRED W SOLLEY M D

The Technique of Bron Rist E and Soulas A 

The case reported by the authors was that of a man twenty three years of age who developed bilateral bronchopneumonia two days after an abdominal operation and since then had expee torated about half a liter of purulent feetid material Artificial pneumothorax on the left side caused no improvement. Rountgenographie exam mations made by several roentgenologists after the intrabronchial injection of iodized oil failed to reveal dilatation of the bronchs but the authors looking for bronchiectases e pecially in the para vertebral space and the retrocardiac triangle noted ampullar postero inferior bronchial cetase which on the right side resembled grapes and on the left side were more cylindrical

Rist and Soulas attribute their success in the examination to their technique which is as follows

After cocamization of the larvny and tracher i simple transglottic and tracheobronchial injection of storain oil (5 to 10 per cent) is given intratracheal injection is administered very slowly with a recem syringe first on the left side and then on the right side one syringeful being used for each side The patient is seited on a table and as soon as the injection is finished he is placed in lateral decubitus for three or lour minutes. The head and thorax are held by the assi tant beyond the edge of the table so that the hemithorax to be injected will not be compressed and there will be no interference with thoracic respiration. The injection including the penetration time takes from six to eight minutes Affect so ompletion the patient is placed behind the ceen so that an idea of the larger born hal ramifications may be obtained A quirter of an hou afte th nj ction the lover portions may be seen and the is the b at time to take the reent genograms. To roentgenograms are taken—on front ve in do ein the right or left anterior oblique po ton. The pittur taken t n angle segner lly the ne ost clearly showing the justa vertebral nes special the et cardaes peen het both of the control tast cut smost frequently.

SERGE T n dt ussi this report said that th nat cut should be a ked to tak deep inspir tons luring the a section so that the todized oil all be aspi at d int the mot r mot ram fications of the br n hi H hould b sk d also of t cough His fort to pr nt cough ng may be ided by a or vous me ton of an anaesthetizing solution Sergent think the ro intrenog ams should be taken mm dately after the inject on because following le p nspi at ons he ecommend the image is thin clar t and waiting nereases the rik of co gh ng As only a small qua t ty of odized o l can be injected one c anot b sur that the bronch cta es hi har mad opaque are the only ones Hence ph ice tomy or other surgical pe atio pe f rm d for br nch e tas of one side may be w thout r sult f the e ar large bronch ectase the other sit AN A L IAC

Cutler E C The Etiol Lyof Po top at e Absce s of cl Lung Ol St l W J 98

The author blee that the etological factors of potop rate abces of the lung are to be found in the open at e und

Po top rati absess s of the lung const tut one hird of all pulmon ry ab cesses Stati tes show that a high pere ratag of pulm nay rb cesses I lo tonsill tomow but it mu the remember of that tonsilectomy is on of the me t freque (t), per formed perain and constitutes one hif of all peraito per fined within a spite or p tentrally epit held Pulmo ary ab ces follows tonsilectomy, no mo fr quently than it follows other one at one is an infected field.

In an e pe ment on dog perfo m d by the auth r infected v ns gment mb l vere set free in the l gular v n The major ty of th se reached the left lo c lobe. This experiment howed that an nfect d emb lus will usually produce an abscess na lo er l be of th lungs.

In noth e priment on dog simple infect d clots ver feed in the jugular ven but as th anim is h d no immunity to the new and 1 ul nt organs mt he usually produced a diffuse pn umo nitis. Th an mal w r then vaccinated vith th org a sm to b u ed. Vi a bacess resulted when the immunity establish d was not sufficient to over come the niete to nat once.

As the exper ments described did not exactly resemble the occurrence of abscess in man the clot being formed in sit of an experiment was carned out in which an abscess was created about the igin lar vein and after the elapse of a suff ear interval for the production of ant bodies the wound was centered and the vein temporarily lighted to produce stass and then seve elv traumatized. In this maner the experiment of the traumatized in the stass is a super an an infection which are necessary for the production of thrombosis. When the stass is elived the lot slipped off and in a few instances an abscess was formed.

The author hopes to show by further experiments that emh fism may be the cause of other pot op attre pulmona y complications such as pleurismfar ton and a co solidation resembling men

monia

Although the experiments described sem to show that embol sm fr m an operate e wound can p oduce no toperative pulmonary ab cess in man they do not p o e that all cases of postoperati e absc ss of th lung are of embol c or gn It : pos s ble that in certain cases the etiological factor is th asp rat on of infected material. However, any form of po toperativ pulmonary complications may occur hen the pe ation s performed nder local anasthesia Moreover many p lmonary omplica tions de elop much later after ope ation than yould be the case if thy we edue to aspration and they often have the udden one t which is characteristic of embolism If aspirat on were the only ca s of postoperative absiess of the lung such abscess s should not occur afte clean on rations

JE VI AIREPATRICE VID

# **ESOPHAGUS AND MEDIASTINUM**

More J L The Tlymu Obsession B! W

Morse states that it has ecently become the tentency in t only of ped atrist bit also of phys crans in gene al t aftr bute to the thymus all of the d stu bances of nfancy and early hildhood which they cannot ascribe to clets. As the finction of the thymus is practically unknown it is easy to assume that symptoms which cannot b acco nted for in any other vay a c due to n increase or de crease in the hyp thetic I secr to of this gland Mo se 1 of the opinion that physicia s 1 g ral do not g asp the f ct that th re is a diffe ence between the symptoms caused by an enlarg d thy mus through pre sure on other structures in the ante or mediastinum symptom h ch may be due to a ontinuous or intermittent increase or o c case n the hypothetical internal secretion of the thymus and symptoms which may result fom status lymphaticu of which enla g ment of the themus is only one manifestation. There cems to be a gene al lack of knowledge also as t the n mal size and growth of the thymus a d the size of its normal roentgen shado

Morse gi es the a crage weight of the thymus hirth and at the ages of s x weeks six months puberty and fifty years The size of the thymic shadow in the roentgenogram varies according to the position of the subject the technique used for the examination and whether the roentgenogram was made during inspiration or expiration. The shadow is larger during inspiration than during expiration Unless the patient is always in the same position and the technique is always the same and unless the roentgenograms are taken after full expiration the findings of the \ ray examination are untrust worthy As ordinarily taken roentgenograms reveal nothing as to the thickness of the thymus and if the examination is repeated it will show that the size of the shadow varies from hour to hour. It is there fore impossible even when a perfect roentgeno graphic technique is employed to lay down and arbitrary rules as to the normal size of the

thymus in newborn infants or older children The only apparent object of attempting to dimin ish the size of a supposedly enlarged thymus seems to be to protect the infant against sudden death from status lymphaticus The author discusses the possible fallacies in the commonly accepted views regarding status lymphaticus and the relation of this condition to enlargement of the thymus It seems evident from the experience of surgeons and anæsthetists with whom be has discussed the sub ject that death from status lymphaticus as a result of anæsthetization and operation is most unusual In Morse's opinion there is no justification for the assumption that shrinkage of the thymus by roentgen ray irradiation will have any effect on tatus lymphaticus and it is not reasonable nor Justifiable to say that a roentgenogram should be taken of every child before anæsthetization or operation or that treatment with the roentgen ray should be given in every case before unasthetiza tion or operation if the roentgenologist believes the thymic shadow to be enlarged

EMIL C POBITSHEL M D

## MISCELLANEOUS

Chapman J F The Value of the Lateral Exposure in the Roentgen Examination of the Chest Rad ology 1928 x 139

In all roentgen ray examinations of the chest made in the Department of Radiology of the Stanford Medical School the patient is first examined with the fluoroscope A single roentgenogram is then made in the anterior position and another in the direct lateral position This procedure has been followed for several years and increasingly more teliance bas been placed on the lateral exposure Although lateral roentgenograph) leaves much to be de ired as regards detail it gives information relative to gross lesions that can be obtained in no other way. The lateral roentgenogram is analyzed in relation to the anatomical structures particular attention being paid to the topography of the various fissures.

According to the author's studies Interal exposures are of value chiefly in such conditions as abscess interlobar collections of fluid localized pleuril effusions bronchiectasis pneumonia pleural adhesions and forcign bodies. In lymphosarcoma Hodglun's listase, and tuberculosis they proved to be of less importance than was expected.

Chapman reports a number of cases in detail with roentgenograms to show the value of \ ray examination in the lateral direction

ADOLPH HARTUNG M D

Boothby W. VI. and Haines S. F. Oxygen Ther apy J. 1m. 1f. 1s. 1928 c. 372

Patients were treated in oxygen chambers with in reased tensions of oxygen. The therapeutic effect was be t in cases of acute anoxemia evidenced by cyanosis such as occurs in pulmonary congestion and ordema frank pneumonar and laryngeal and tracheal obstruction. In this condition the use of oxygen was frequently a life saving procedure and in most cases it greatly increased the patient's comfort.

Oxygen treatment is of value only in relieving the patient of the added load and danger of anoximia and must be continued until the cause of the anoximia is relieved. There is no evidence that oxygen increases resistance to infection but as it prevents the lowering of resistance its administration should be initiated at the very first sign of cyanosis

The study reported showed that a vicious ericle can be started by a mild pulmonary or bronchial infection. Such infection leads first to pulmonary congestion and exdema which interfering with the teration of the blood cause anoxemia and cyanosis. The patient then becomes more susceptible to the infection and the consequent rapid development or extension of the pneumonic process completes the vicious circle by increasing the inoxemia.

The authors noted also that a mild bronchal or pulmonry infection accompanied by cyanosis rouses a greater elevation of the temperature than infection of the same degree in which cyanosis is prevented by the administration of oxygen. The administration of oxygen frequently produces a crisis like drop in the temperature a decrease in the pulse rate and marked clinical improvement.

# SURGERY OF THE ABDOMEN

# ABDOMINAL WALL AND PERITONEUM

Roque F An Endomer al Turn r of tl Um bilicu P R \ M d I d 9 8

Roo c de crib a du fa rather vas ular tumo hich as em a d from th umb hich of a voman fortv ni e y of age. The pati i stated that d ring th m in tual period then onla min ea. I n i e became slightly painful and evul d blool from cral nu s. Whint as xirsi his concetto this thing prior me juld be fun l. Ho

e on the poster a pet of the tumer there as a tract than hit gli tening lining hehended blin livin the region f the atta himent of the pe lied. The groth as to a pulated

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metriomata

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G GAC ETT MD

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In age ment the pt in the lt ature the autho found that half it has set pertied tuber to seen the Bellner very establishment. The set of the se

a lhes v form an l that i the latter conservative mang ment give much b iter results than op rati e treatment

The m tality figures for the type of therapy may lead to the erroneous imor soon that operative tr atment is better than conserv to e tre tm nt the mortal ty in the cases t eated surg cally her g 5 per cent and that n cases treated me heally b ing 35 per cent The bas s f r the error is to be fo I in the patt at s gene al condition on admission to the hop tal Mot of the patients hove e dmitted for urgical t catment had been taken acutely ill > ry suddenly (the majo ty ere refer ed with a dagn i of ac te appendic tis) whereas mo t of those ho re admitted fo medical tr atment b 1 b n ill fo a long time It especially empha s zed that no pats at died from the tuberculosis of the peritoneum alone. Two death due he cells to th per tonit s occurr d not as a result of wak ess 1 niti n o to ic effects but as a result of intes t nal perfo ation

Of the xt, patients te ted medically and the sixty trated surgic live at the Basel clinic only senty veould be followed up. Of the latter that the error ared surgically and forty three medically. In the medically texted cases a cue

s obtained in t enty two (5r per cent) and im for ment nise ent (65 pt cent). In the cises trated sug ally a uer as obtained in stern (40 ptr cett) ad imporement in ticke (36 per nt). Tha and time trajel to obtain a cur in bit ng ups si months C (2).

McWi ter C L To sl n of the Omentum with out II n Rep t f Two C s 1 d S t

The value types of torsion of the ometum have

To s on of the omentum unassociated with he n albeions or t mor

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existing or pie e i ting h min b t having no conectio ith the latter

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O ly t e ty io es it o of the oment nas ocated thh rn dh stons tumo ha been reported. The a tho report t essof he o n and drays the folloung collsos Torsion of the omentum may occur in the ab ence of hernia or other pathological condition and without previous abdominal symptoms

previous abdominal symptoms

There is almost always evidence of a pre existing

pedicle This may be of congenital origin
Obesity of the omentum is pre-ent in the majority

of cases and is probably often a predisposing factor in both the formation of the pedicle and the torsion

Hyperæmia may be the usual exciting factor in torsion but trauma or unusual physical exertion may also initiate it

Prophylactic resection of a pedunculated omen tum and the liberation of adhesions are usually advisable

Early operative resection of the strangulated omentum should be performed

JOHN I MALONES MID

# GASTRO INTESTINAL TRACT

Breitkopf E Volvulus of the Stomach (Ma ) volvulus) Beitr klin Clir 19 7 cxl 9

Breitkopf reports a ease of idiopathic anterior volvulus of the stomach on its avi The patient was a man forty years of age who had had period ically recurring gastric disturbances for eleven years and suddenly after a heavy midday meal suffered a very severe attack of pain. The pain was not associated with vomiting. In the hope of alleviating it the patient took in the cour c of two and a half hours three beaping tenspoonfuls of odium bicarbonate After the la t dose there or curred a sudden progressively increasing distintion of the abdomen accompanied by severe abdominal pain Four hours later the patient was admitted to the ho pital with cyano is of the extremities and face and drum like tenseness marked tympany and great distention of the abdomen As reliable organic findings could not be obtained a tentative diagnosis of perforated ulcer of the stomach was made on the basis of the history

At operation the interior wall of the greatly distended stomach at first suggested a cyst. On puncture a large quantity of gas was given off and the stomach became much smaller though it still contained a large amount of fluids and solids An attempt to evacuate the gastric contents hy means of the stomach tube was unsuccessful as the tube could not be passed through the cardia Closer ex amination then disclosed a rotation of the corpus and fundus of the stomach to about 70 degrees the ax s of the rotation being parallel with the long axis of the organ The rotation had formed a fold which extended from the cardia in the wall of the fundus on a line parallel with the lesser curvature and exerted a valvular effect. The duodenal attach ments were markedly relaxed (ptosis duodeni) In the upper part of the descending portion of the duodenum there was a sero-al pannus a whitish va cularized opacity suggesting an underlying ulcer

When the stomach was partly emptied through a gastrostomy opening the volvulus was un

tvisted. The postoperative convalescence was stormy but ultimately recovery resulted.

This ase was characterized by extreme gastrop tosis with marked weakne s of the suspensory to such that the duodenum and apparently a parpy forth was of the duodenum and apparently a parpy forth was the favored the contraction of the healing ulcer produced stenosis of the poloni with resulting gastrectasis which favored the occurrance of volvulus. The indirect factor responsible for the volvulus was the heavy meal and the direct tactor the sudden formation of large quintities of gas from the sodium bicarbonit. The rotation of the stomach amounted to only about 70 digrees and was therefore, slight as compared with that in other case reported in the literature. The rotation in the upper part of the stomach (corpus and fundus) occurred anterioriy because the trans ver e colon prevented a posterior rotation.

I be explanation of the closure of the duodenal end the stomach must be ba ed on hy pothesis as this portion of the organ was not exposed at operation Reentgen examination suggested a stenotic condition of the pylorus but this was not sufficiently pronounced to explain the complete closure. It is probable that the dilated stomach was forced down again t the sloping internal surface of the liace bone and that the pull of the gastrocolic ligament filled it toward the vertebral column thereby closing the plorus by twisting it.

Choisy R and Babaiantz L A Contribution to the Study of Volvulus of the Stomach (Con irlui I tude lu ol ulu de l'estomac) t tar d l 9 410

The authors describe the principal forms of volvulus of the stomach and emphasize the importance of the N ray in the diagnosis of volvulus of the pyloric portion which is not clinically characteristic. They then report a case of volvulus of the stomach in which the diagnosis was made by roentgen examination. This case was characterized by an abdominal syndrome with intermittent pain and vomiting in testinal stass and pneumatosis retention of urine and amenorrhosa. Laparotomy revealed no organic changes, in the stomach or its vicinity.

Olvulus of the stomach not exceeding 180 degrees may occur without causing any striking symptoms or functional disturbance. In the absence of organic lesions of the stomach gastric volvulus may be the result of intestinal pneumations. Its occurrence is favored also by the retention of urine and hypermothics of the stomach.

Volvulus of the stomach which does not exceed 180 degrees may become reduced spontaneously

Nickel A C and Hufford A R Elective Locali zution of Streptococci Isolated from Cases of Peptic Ulcer | Irel | I | Ired | 1928 | x | 210

A review of the literature reveals numerous vavs by which ulcers of the stomach may be produced experimentally. Some investigators of these lesions believe that infection plays an important part in the et ology of peptic ulc r and that a gastritis or duo

d mt s pre ed a the ulcerat on

Th auth s u ng R seno elective localization meth 1 tult 1 ghts secut v cases of ulcer for fo i f i f ton The foci e e in the teeth ton d potat In enty n ne of the eights cas s th r a fo of nf t on which harbored p dueing st pto o capable of product g f th t mach luodenum when injected

ntra n l nto abbit of 1 en other cases in high the ulcer t i t n of the r s ct d ulcers w re lound nt 1 th g e prolucing streptococcus that 1.1 f th stoma h or duodenum in rabbt and nall of thelen caes there as a f u fifeto harb ng trains of streptococci milar lo li i g po er The majo its of the rati ts ho f r not adicated d d not m

p e or main vmpt m f ee as did those whose lim at d s11 f the author tate that the use of an t g no vac inci ometimes of the apeut c value

II V J The M ch ni m of Pain Prod al R f en e to th Pains of Peptie Ul r

ella s mmar es th s a ticl as follows The v s cra ar in ns ti e to many stim li

jit f the op o of Kast and Melt er

This n shill to h san int esting biological gn fican

3 Si Jam s M k zi made an import nt step fo ad the it p tat on of pain by describing it eff eff cts but he e red n denys g all ensi bl ty t th vis era and h failed to de c the the ad qu t st mulu hich in tiate the impufs s in

th refle p th

4 Ln ander oki mot important in em phase g the ens bil to of the parietal peritoneum but Le nand s th o s fail when applied to purely splanchnic pa ns

5 H std t g h d the refe red and the truly ceral lem nt in spl nchnic p in He pointed out th t the c a may be sen t ve if the adequat st mul s is employ d altho gh they m v be usensi tic to other frms fit frence He co sidered d stent on t b the adeq ate st mulu but failed to tak int acco nt the facts that e tr me d ten tion may caus no pan and that visce al pan may occur in the absence of distent on I believe that the cact on of a hollo viscus t e per m ntal or p tholog cal di tention depends pon it phys of g cal habits The st mach and the renal pelvis illus

trate the s p 1 ciple from opposite st indpo nts 6 The chr ct ri ties fp n in pept c ulcer are des ibed per al stress b ng l id upon its u lly steady n tu It is not d that hæmorrhage n

fluences the pain

7 Current the res (Macken e L nnande s Hurst's Ryle nd Carl on s) do not ad q ately e play the charact rites of ulcer pains

8 Somatic pain may of course ari e from me chanical interference. By dragging on the parietal peritoneum prolapse of the viscera may cause p n

which s really s matic

9 The pan in llorganic di ease I the spl nch nopleu e can be b ought under a common mechanism ith somatic pa n Compres on of ne ve fibers has been sho n clintcally and e p imentally to b the essenti f common factor

10 Compress on 1 of two great varieties (1) that due to vasc I r and cell lar cong stion in the tissues and (2) that due to p werful muscular contraction

11 I ams depending pon d fferent mechanisms have definite and character stic attributes follow a naturally from the mode of pan pr duct on Th's is a most imp tant p inciple. Apart from pain lue to mechanical interference with somatic ti sues the cong stive and the pe istaltic a e the to g eat varieties of p n

The steady nature of pept c ulc pa ns sug ge ts a steady c u e nam ly congestion Further scrutiny of this conception provides for the pecu harities of ulcer pains a satisfacto y explanation hitherto mpossible. Pan is theref e prod c d n a cho ic ulcer of the stomach in the same (a) as in a chronic ulcer any here else as for e ample

in the leg

13 Congestion requires a certain amo nt of r g d ity n the tissues i order that comp es n may be b ought to a stage ad q ate for p p oduct Congestion n rigid tiss e s present in ev 3 case of chronic peptic ulcer The essentials for pan pro d ction according to previous notions could be

demonstrated in but a few of the patients 14 The alkal es have been in stigated rad g phically and hymographically in the h althy and the dis a ed subject. They have no effect o gastric Sodium hicarbo ate c uses a rela ation

of the pyloroduodenal musculatu e 15 The ps udo lee p in in ppendi and gall bfadder disease dep nd upon lymphangitis and I mph dentis in the pylorod odenal r gion

Tollo ng a r vi w of the ht rature on the infec-

tous and nflamm tory geness of gat od ode al ulce nd an xhaust ve con der ton of Pie fiers theorie as to the nature f to ication by the prod cts f pr tein de omposition the a thor attempts to the w some I ght on the p oblem of the rôle pl yed by 1 flammat on o the assoc ated pro tend compost nin the prod ct on fulc r

He states that every I f bstance in the gastro 1 test al tract as well as every er s on 15 to

be regarded as infected. Infection whatever the infecting organism produces a local inflammation of the wall of the stomach Certain elinical observa tions indicate that the inflammatory phenomena are not to be considered solely as secondary processes in some instances an ulcer may result from them

Besides bacterial toxins toxins introduced from without and toxins formed within the body may lead to gastritis Among the causes of auto intox ication the author regards protein decomposition products and histamin as of particular importance In fact he believes that intoxication due to the products of protein decomposition is the basis of all theories of ulcer formation. That the products of protein decomposition may be excreted from the stomach and duodenum seems to be established by various pathological processes such as parenteral dy pepsia in children following infections and ulcers resulting from burns uramic poisoning etc.

Besides the local production of protein decom position products in the inflammatory foci a part is played also by inundation of the organism by the products of intermediary metabolism as a result of abnormal resorption (epilepsy) The author suggests that many gastroduodenal ulcers may be due to such chronic gastro intestinal auto intovication of the organism In support of this theory he cites the constitution so frequently associated with ulcer which is regarded as the primary trouble and the difference in the frequency of ulcer with different types of diet

The intoxication caused by protein decomposition products is of such a character that it fits in with all theories regarding the genesis of ulcer author sees in the protein body theory the first be ginnings of a therapy which perhaps may seriously threaten the status of surgical treatment. Such a stimulative therapy is to be seen in the tissue break down incident to the peritonitis following the per foration of an ulcer which is responsible for the permanent healing of a large number of ulcers

In experiments carried out on dogs an attempt was made to produce similar conditions by the preperi toncal injection of from 20 to 30 c cm of physiolog ical salt solution containing 1 or 2 c cm of oil of turpentine These injections caused a considerable thickening of the peritoneum and a moderate amount of peritoneal exudate. It was found that experimentally produced ulcers healed rapidly when such injections were given Lyperiments on dogs un lertaken to substantiate Stuber's findings vielded negative results. In experiments on rabbits in which subdiaphragmatic section of the vagus was done and Layr's injections of formalin were given an ulcer was usually produced I tul (Z)

Nystroni G. Peptic Ulcer After Extensive Resection of the Stomach (Ul u pepticum n chausg leh t r M genresektion) /c t lbl f Cl r 1927 2265

I ven extensive resection of the stomach is not a certain protection against peptic ulcer of the jejunum and may not always result in a decrease in the secretion of hydrochloric acid and pepsin. The author reports a case from the Upsala clinic in which five months and thirteen months after a Billroth II operation for ulcer of the duodenum at was necessary to operate for jejunal ulcer Even after the third operation a temporary anacidity was followed by a hydrochloric acid value of 24 and a total acidity value of 56

Up to the present time there have been reported in the literature sixty two cases of peptic illeer following resection of the stomach More data must be collected with regard to the chemistry of the stomach after resection and especially in peptic ulcer of the jejunum following resection since our theories concerning this question require proof Wanke reported from the Kiel clinic seventy cases treated by a Billroth II resection without a recur rence or the development of a jejunal ulcer. In more than 300 cases in which a Billroth I resection was performed from two to fifteen years ago there were two recurrences-an ulcur tumor in the anastomosis and a callous ulcer in the duodenum In both of the cases with recurrence the resection had not been extensive enough and the reidity was high However the recurrent ulcer and the jejunal ulcer were not the only evidences of failure in the ulcer treatment not all of the lesions in the other cases were healed

Operation can bring about a cure only when it is performed on the basis of the proper indications Resection of the pylorus and antrum is indicated for chronic callous penetrating ulcers and for cases of ulcer of the jejunum in which gastro enterostomy has failed but should not be done for simple ulcer or ulcer sickness without ulcer. It is indicated also for cases of chronic callous ulcer in which a spon taneous cure seems no longer possible. It does not matter much whether the method used is the Bill

roth I or II procedure

Bruett examined the ulcer material of the Eppen dorf clinic to see whether it was true as was former ly believed that jejunal ulcer occurs just as fre quently after the Billroth II operation as after gastro enterostomy. Among 500 ulcer operations performed in the last six years there were 400 resec tions by the Billroth II method (Reichel Polya) and 12 by the Billroth I method. In the same period re cases of jejunal ulcer were operated upon nearly all of them according to the Billroth II method In 14 cases a gastro enterostomy had been performed previously A Billroth II operation had been done previously in only a case and in this instance was performed for a jejunal ulcer which developed after a gastro enterestomy. It was noteworthy that in spite of the absence of free hydrochloric acid in fractional specimens several new peptic ulcers of the sejunum had formed

It therefore appears that as indicated allo in a case reported by Haberer free hydrochloric acid is not absolutely necessary for the formation of jejunal ulcer. In the r2 cases in which the Billroth I operation was done the e were 2 recurrences one at the suture, line and the oth r in the doudenum a av from the sutue line. In refore the good results bits n 1 to ther. Inness that B B Broth I I rate out to no firm d The eviden ed alo by 2 t cu nes of vider neases n h 1 a B ll th 1 op ation S p rf mel at anoth line. The  $(\mathcal{L})$ 

Sc \ C J jun i nd G st ojejun i Ulce Ul j l g t v j al ) P g d l l W i i q v 363 4

ter tom.

If d that the a eage time bethe in the gost of the total ment and the delopm into the jegural uter the corf urm into J nall other should be spect if where patient return after a gate on the tomy complaining of recursion of the choice of his in rayimptoms. On of the choice working the paper culturly pain on pressure to the lift of the stift the original uters. The contraction of the choice of the grant of the contraction of the choice of the grant of the contraction of the contraction.

The b t p ophylact c t eatment; supp ssion of the s c tory fu ction f the antrum of the pyloru as compl tely go ble at the riginal operat on of g tr d d nal ulcer g trectomy hould be pe f rmel instead f gastro enterostomy f po thle In 8 o cases which the author p formed a ct there was not a single inst n of neumalul r G treet my is nd cat dals f the econday ule The detail fith peato are sh n in flust t ns It is moortant to membe th t g tro enterost my does not immedit ly effect a cure but me ly fa or the he lo of the le ion and sh uld th ref re be followed by careful regulat n of the d t and m asure to red ce the gastric acid ty 1 D GM

Lah s F II nd J d n S M G t ojejun 1 Ulc and Gast ojejunoc llc Fi tule 1 S g 9 8 lx 3

The authors state that the maj it of the ulcers d cloping after gast o entro tomy are gast o jejunal ulcers and not recurrences of be original

les on Gastroj junal ulcers are more common than
as f rme ly assumed Because of their frequent
and senous complications their early discovery is of
great importanc. When medical treatment fauls
to give rifanilo erthe activity prompt and com
pute readuction of the line in leaf and

C LR S MD

H rdi ty R H M On tle T tment f Gastric

In as so fastreul r the patents hab ts and associal trus and the honicity of the loo have an my ritant influen on the r ults of t atment. The rec rl of e es of undoubt d gast culce treat d at the Roy l'y t a Hospital M intreal d right hat it vers that the majority of the ear tethereu dorb nefited by medical to the train at 100 er m dhealt at min of can bonly implements of the cause of rest ultream at 100 er m dhealt at min tean bonly implements.

Alost urgeons and some int rn is age et that ce tain ch are ulers and those ith complections must be tree t loug ally I age; sof 500 med cally treated cas of g tri and duodenal uler hech t ported by Eggi sto relief over a period of

ear csult d 70 per ent In othe series of
es tre t l m d lly a ure was obtained in
f m 40 t 58 p c t in th m der the cond
tion as morely der aggravated. The mo tality of

tion as mprov dor aggravated. The mo tality of med calt atment rang from 5 to 6 per nt St itsic of g o p f cases treated su gic lly how that tre may be p ct d n from 80 to 90

how that tre may be p ct d a from 80 to 90 prent of cases sof d oftend uler and in 1 om 50 to 80 pe c nt of case of g true ulere. The mortal tages from to 5 prent 1 pending pon the rgen P stop tweljun luce occus in or per ct if the ases the che g u ul buch onue ases d thos h ch ha e resit d m d c l man g m t

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b come m lig ant
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mith I may be used and the choice is fiten det
mine I by the patient so all or inancial cond to

WILL JI TT MD

Tylo F B The Ambul tyT atm nt of P p ti Uler Clf & W I M d 9 8 48

The a th r str ses the fact that many peptic ulcers can be cur d by ambulatory t catment

In tal. g th h sto v of a cas of peptic ule r he
opening the part of h s food the u of tobacco h s
exe the mination he makes a search for foci

of infection in the teeth and tonsils. He tries to control the psychic load by urging the patient to manage his business domestic and social affairs in such a way that he will not be incited to overdraw

physically mentally or financially

The most important factor in the relief of ulcer pain is the frequent feeding of meals containing fat Experimental evidence has shown that fat containing meals depress the muscular activity of the stomach By anticipating the pain and feeding at the oppor tune time it is usually possible to keep the patient free from pain. The author gives alkali only during the first few days He prefers to give it in the form of calcium carbonate as all of this salt that is not attacked by the acid passes through the bowel with out change so that excessive absorption is avoided

While Taylor believes that there is some advan tage in hospital treatment he has found that when a patient is released from the hospital he has a ten dency to work harder to make up for lost time thereby favoring a recurrence of the ulceration If the patient will accept the program laid out for him and follow it for many months after he has become symptom free he will live in comfort and surgery

may often be forestalled

In conclusion the author emphasizes that even when a patient treated for ulcer remains free from symptoms for months or years we cannot know that he is cured Therefore the regulation of his life and habits must be continued in lefinitely If op eration becomes necessary it should be accepted as one phase of the treatment

POSCOL P GRAHAM M D

Maclean II Jones I and Fildes G The Cure of Gastrle and Duodenal Ulcers by Intensive Alkaline Treatment L ic 1 928 ccviv 14

The authors state that the normal concentration of hydrochloric acid found by the usual test meal is deceptive as the acid continues to be secreted after digestion has been completed and the meal has left the stomach. As hypersceretion in the absence of food in the stomach tends to prevent the bealing of gastric and duodenal ulcers the authors advocate inten ive alkaline therapy for such lesions. They give a mixture consisting of one part of sodium bicarbonate two parts of magnesium carbonate and two parts of bismuth oxy carbonate. The magnesium may be decreased in cases with diarrhosa and the bismuth decreased in cases with constipation. In order that the powder will have the maximum effect the patient is kept on a liquid diet preferably of milk for at least a week. A teaspoonful of the powder is given every two hours during the day and a double dose at night just before the patient retires The duration of the treatment is approximately twelve weeks

In the authors opinion the action of the alkalies is essentially that of neutralization and alkalosis does not result. The effects of the treatment are harmful only in prtients with advanced pathological condi-

tions of the Lidneys

Cases in which the treatment described was followed by complete subsidence of the symptoms and disappearance of the signs of ulcer in the roentgen picture are reported RODIRICK V CRACE M D

Pumperl R and Schwarz F Experiences in the Surgical Treatment of Castrie and Duodenal Uleer (I rfahrungen mit der operativen Behandlung des Ma en und Duodenalge ch vueres) Beitr llin Chir 19 7 cd 259 311

The authors report a follow up study made of 637 cases of gastric and duodenal ulcer treated surgically in the period from 1912 to 19 3 to determine whether and when palliative or ridical operations should be attempted Cases of embarrassment gastro enter ostomy (an escape from an embarrassing or per plexing situation) have not been included in the re port because the presence of an ulcer was not proved

Among the absolute indications for operation were included stenosis penetration and perforation and certain eases of bæmorrhage Operation was done also for special social reasons but many of the patients had already been subjected to several courses of medical treatment. In the presence of occult hamorrhages operation is indicated by pain comiting and emaciation even when the positive roentgenographic findings are not pronounced

First among the operations in the cases reviewed was gastro enterostom. This was usually combined with exclusion of the pylorus as a rule according to the technique of Wilms but also according to the technique of von Eiselsberg Postoperative hæm orrhages from the suture were twice as frequ at as those from the ulcer and are therefore to be at tributed mainly to the technique. Two cases of surgically incurable ulcer are reported in detail

In a series of 398 cases 399 gastro enterostomies were done The patients were between the second and eighth decades of life Three hundred and four of them were males Two hundred and twenty eight of the ulcers were in the stomach Of these 139 were in the pylorus 40 were prepulorie and 40 were at a distance from the pylorus. One hundred and

seventy ulcers were in the duodenum

In 214 ca es the operation consisted of gastro enterostomy alone and in 183 of gastro enterostomy with exclusion of the pylorus (the Wilms procedure in 181 and the von Eiselsberg procedure in ) Exclu sion of the pylorus was done in 124 cases of duodenal ulcer and 61 cases of vestibular ulcer A peptic ulcer of the jejunum developed in only 2 instances

In 244 of the cases treated by gastro enterostomy there were no complications. In the 154 others hamorrhage occurred in 8 penetration in 48 pcr foration in 43 and stenosis in 67 In 3 cases a second operation was necessary because of post

operative intestinal disturbances

In recording the re-ults of gastro enterostoms the author gives first the percentages including the cases of patients who could not be traced (157 or 27 per cent of the total number) and then the cor responding percentage calculated without the latter

Of the 203 patients treated by gastro enteros tomy 51 pe cent (7 5 per ce t) are f lly able to follow their o cupat ins. O e hundred and se enty of the ulcers fo high this operation was pe formed were locat d n th duodenum 30 in the pylorus 4 n the prepyl cregio and 49 at a dit nee from the pylos fn Gouprac evas btain d (60 per cent 83 6 p ent) 10 G oup 60 (43 pe ent 6 prcent) n C oup 3 in o (50 per c nt 64 5 p cent) and in Group 4 in 1 (43 per ent 656 prc nt)

In the ssofg striculer n hch cluson s don then mbr f svas perce thehr than I thos itho t pyloric clus on in the cases of d den lulerth nule ce of cue as

cent highe wh velusi n as do

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f mth pylo us 1 llous 1 d pen trating ul rs

sdeelth m tholof h c fo lesatad tane of th l cur atu Of 37 p t nts tr at d by th Billroth I op ation (50 p c nt 9 6 per cent) r f lly ble to f llo th occupations I'm mortality in this

Loup a oly pc cnt Of the pat ents ubjected to th B lfroth II opera t n 47 (3) prc t refully abl t follo their o cupatio In the goup the mortality as \$ 8

re cent Of th p t nt subj ted to the Reichel pro c dure 67 (7 ) per c nt ere abl t follo the r occ pat ons di6p ent ded

The mortalit fterr t n averag d operce t equalntt that firgato th f tom Ih eult of g tro nt ot my re rnd edl fa ble b th e hich a c r res It only aft m nths of t t n I th rapy. The unfa ll fict f lack of pot pe at m d al tr tm time ppantia tateby gatoentr tmy than n tho te ted by res ct n

The authors on lude that if resection is not asso

ciated vith too great risk it is the method if choice for g stric leer. In the treatment of pylor c ulcer certain prepylor c ulce s and duodenal ulcer both gastro entero tomy and r section hav a place Of the many method of re ection the p ocedur be t adapted to tb | li idual ea e should be chosen In Iffcult ca es re tion is n t essential a gastro ente stomy cur s larg number of ulcers that are not curable by medical therapy

Woolsey J H Tie T end of G st Su gery II I II d 19 8 38

The author r icus the e olution of the indica ti ns f r op ration i cases of gast e l sions and the physolog al ploc as a involved in the priduction f symptoms H c lls attention to the fact that th ac Is to occurs ch fly in the fundus f the toma hand to a less extent in the cardia Ivy found no acil or ac d producing cell (pa etal cells) in th pel can lor ant um

The objects f the gast ic surge y pe formed today to mantan then tural course of the food thr ugh the digest ve tret in utralie the gittie juice plac gast culc sat rest by pr per e nptying r d at age of the stomach and sub t tute a healing t u r mo eana caesp ally p one to ulceratio In the preparati n of the p tient fo operation the g ner I cond t on sh uld b improved as much as po ibl e id nt foci of inf ton cl ared p and m sur s tak n to co rect dehydration and ga tr c tas

Wool es p fers to sutu e ith catgut n tead of lk 1 ll ca e e en tho e of mal gnant les ons h i of th pinio that non ab o babl suture a e a c use of marg nal il er He emphas zes the im pot nce flgat gall blood l'o the anterio border of the a stom sist I e nt postoper tive hamorrhage life fo m a toma that all casals dmtt fngr He do not app ove of entero e terostoms of the lop binag tojej n toms Att nt on 1 call d to th | lay of gastrie emptying

h ch follo vs most f the ope ation of pyloroplasts th the e pt on f th I nn v proc dure In g stric ect on thathr s th Balfour I hat chniqu H perform agatoe te ostomy o h in elect d cas s if h s not d that the Bill th I op ratio sapt to be follo d by e urrence of the 1c G troduodeno tomy as desc bed b Kocher he belie es 1 worthy of con ideration 1 crt nea s

W th reg rd to the te hnique n duo lenal ulc r Wo let st te that ulc sit ted on the ant nor all immed tely at or n t mo tha cm from the pyl rus may b tet l by pyloroplasty but those f thr a) h llb treat d by ga trojeju

I cas of harmo rhag a lr ct ttack on the ulc n ce ry In ga t c ul r brect treatment on o aut tinaln llnot gerelef dis pt to b f llo dby curr ne Tb s m 1 true of gastro tero tomy alo e b t the two pro c dures comb n d give g d subj cti e a d objee

tive results. Woolsey does not favor sleeve resection. The ideal operation he believes is partial gastrectomy.

In Woolsey's experience gastrojejunal ulcer has occurred in from 2 to 3 per cent of cases. The absence of such lesions in the cases treated at the University of Californa Chinic during the last five years is attributed to the use of an atraumatic technique and absorbable sutures and the careful adaptation of the operative treatment to the requirements of the particular lesion. Woolsey treats gastrojejunal ulcer by partial gastrectomy.

ROSCOE R GRAHAM M D

Hartmann II The Late Results of Gastro Enterostomy in Cases of Ulcer of the Lesser Curvature of the Stomach (Résultats el ignés de la gastroentérostomie dans lulcère de la petite courbure de l'estomac) Bull et né i Soc at d'edur 1927 lui 1907.

At the Surgical Congress of 19 o Duval and Delageniere stated that in cases of ulcer of the lesser curvature of the stomach gastro enterostomy should be abandoned in favor of excision of the ulcer. This view was shared by all who took part in the discussion. Hartmann agreed as he had practically given up gastro enterostomy for this type of lession since 1007. However on studying the results in fifty cases in which he operated from one to twenty two years ago he found that the late results of gastro enterostomy for ulcer of the lesser curvature were far better than he had anticipated even in cases without delayed emptying time.

Two of the patients had had some trouble during the first few months after the operation but since then had remained well for eight and twenty two years respectively. Twenty five were entirely free from symptoms after the operation. Accordingly twenty seven of the fifty patients were clinically cured after a shorter or longer period. Six con tinued to have digestive disturbances but these were milder Of eight who developed secondary troubles after they were believed to be cured four responded well to brief treatment. Two had late hæmorrhages but felt perfectly well. A second operation was done in only two cases. In one of these there was partial intestinal obstruction from an omental band a condition which was relieved when the band was severed \ ray examination later revealed hour glass deformity of the stomach In the other case the second operation revealed a cicatricial adhesion between the lesser curvature of the stomach and the liver without active ulcer ition Gastropylorectomy was followed by recovery Two patients later presented evidences of cancer In the case of one who died fitteen months after the operation autopsy disclosed carcinoma of the stom and liver In the other case the clinical signs of cancer developed at the end of five years

Hartmann concludes that contrary to prevailing opinion the results of gastro enterostomy in cases of ulcer of the lesser curvature of the stomach are very satisfactory and that the operation has fallen into disrepute merely because it has often been per formed in the absence of the proper indications or with a poor technique. Leo M ZIMMERMAN M D

Reischauer Three Fatal Cases of Dysenterle Enteritis Directly Secondary to Gastro Fateros tomy or Extensive Gastric Resection for Ulcer of the Stomach (Drei Faelle von letal verlaufener ruhrartiger Fateriti im unmittelbaren Anschluss an Castro enterostomie bez ausgedehnte Magen resektion egen Ulcus ventriculi) Zentralbf f Chir 1927 li 2724

In one of the cases reported by the author the necrotic inflammation was limited to the lower ileum and there was no involvement of the colon or the upper part of the small intestine. In all of the cases reported in the literature colitis was present. As compared with the prognostically very unfavorable and rare postoperative entertits the much more frequent dispepsia which develops later is of less importance. In the latter condition there are usually no definite findings in the intestine.

In the discussion of Reischauer's cases Lehmann emphasized that it is essential to differentiate be tween the hemorrhagic diarrhea which begins on the first day after operation and the non hæmor rhagic dyspensia which first develops several days after the operation. The latter is dependent upon the changed bacterial flora and gastric chemistry Errors in diet are also a factor. Therefore hydro chloric acid should be administered soon after the gastric operation. The bloody mucous dysenteric conditions have not yet been explained. They occur also after gynecological operations and operations for brain tumor. Refiex nervous conditions may perhaps be a factor. The colitis with an unfavorable prognosis occurs only in weakened patients.

Gorbel described the microscopic and micro scopic appearance of a gastice sarcoma. The condition had been diagnosed clinically as a perforated ulcer. The symptoms of perforation were due apparently to the rupture of the tumor into the luman of the stomach at the site of a polypoid process extending through the gastric mucosa or to entrance of the gastric contents into the cavity made by the perforation. The latter would account for the fiver and the adhesion of the tumor to the anterior abdominal wall. The adhesion caused muscular rigidity and pain on pressure in the epigastric arigidity and pain on pressure in the epigastric may mes such an invasion of a stomach tumor by gastric contents may not be rare.

The structure of the tumor suggested the relatively rare angiosarcoma of the stomach Henrel (Z)

Thalheimer M Degastro enterostomization (De la dégastro entérost misation) J de chr 1927

The term degastro enterostomization is used by the author for the operative closure of a gastro enterostomy opening. The procedure is indicated in

cases with a pylo c syndrome in which no illeer is fo nd and the results of eastro entero tomy have been d appointing and in cases in hich pastro ente ost my has permitted the cicatrization of the iller and the normal posit on of the o gans should theref re be re e tablished. In s me ca es a pentic ulc may le clop at the gastro enterostomy op ning after cicatrizati n of the p mary he me reports a c f this type. The pat ent had app nds ts the dyst pin and hem t mesis Aft r gastro ent ostomy the gastre d turbane s be ame a ent at d Dega tro nte t m zat n brought about tion of the gast c s mpt m The history was thin e planel by an attick of appendent and the patent ecover I complet ly aft rappe d ct my

The te hn quof d stroent t miz ton ; s

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The r ults fith perat nae cllent fith uses of the l turbe claingt the n tf d as to ente t m (appendits hl tu etc) a ecorre tel

PemnE The Aid ty of the Stomal Filling
G tic R sect ns (D A it t m Mg
h V t l kt ) Z t lbl t Ch o

D comfort and om t ng f llo g an perat n on the stomach a e b st a o ded by th fo mat n of a ga tr fi tula acco ding to the tech que of W tzel. The fistula pr ents t gnat on n th stomach nd makes t possible to det m thech cter of the g stre; c d ring th first f day fter the ope tion

I all fice a es in which a Bill th I pe att in with fistul a prformed fee hid chlo divas pre nt—ino e case in sight atm int and i the others in large amount. Of fou teen as in his hie Billroth II op a ton vas doe ith the form

ti n of a fistula fr e hydrochloric acid was ab ent in only three in four it was present in small amount anl i s en in an approximately normal amount

In tigations th the test breakfast yelded mut h lo r hydr chloric aid valus. Of fourteen cases in hich the Billroth II operation vas done v thout the format in of a fi tult, the test breakfast showed fire hydro hion act lin nine and only very smil amost so of it in fice. Hence after the Billroth II pation the tet breakfast gives mis leading esults p bably because t le ves the tom h lim t nimed at ly.

I the d cu n of this report Wanke called that n t the fat that th simpl stimution of the a l lu after the test brillast melending a in the gree majority of rese it veil anacidity or e n achief to him to fat the fat

But IT stat I that the difference in the find g is do to the fet that the juice ohtailed high the gate fit I ha littly on a limiture followership is e T os (Z)

C s e o and B s et R pe ted Inte tinal Oh t u tion (O lu t t l té t e) B ll

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Her of that In's fill nest ref m n nt t m huld b lone in add ton t th f g of adh r nt bo v 1 loop. The seg met f nt t nea stome s i should be taken t a d t n from the site f the ob tuction. In some a th on 1 ton of the p i in time she such that a lot im m m st be done s in the c nd ope troin n f the case sreported

Bt ntlet atteks of complete betretton nth a evi d the e es wind most in might be tuch n Thi suggest that op ratio hold be perf miln soon as neomplete obstructin n r c gni d in o drithat complet obstructin m whip ented

When peation for the ler tion of obstructing dhesios is foll ved rap dly by the formation fine clean his cit gadh in the patient has a gruter tenden y to form adhesions than insual

LET M.7.4 in M.D.

H 1 K Al r z W C nd Mann F C Int tl n 1 Abso pti n A Se cl f Lo Re ld Dit 4 h I t W d 9 8 1

The autho c ll attent n t the fact that if food are c mpletely util zed in the holy the amo nt of free s will remain the same no matter v hat diet is given and the stools vill be composed chiefly of

dead bacteria and intestinal secretions. The bulk of a stool depends largely upon the amount of cellulose contained in the food

Cannon found that proteins have the slowest fats the next slowest and carbohydrates the quickest passage through the gastro intestinal tract

Hele noticed that milk produces large amounts of residue and lean meat and rice leave very little residue

In an experiment on young healths men Rubner found that meats eggs rice white bread noodles and macaroni are most completely digested while milk cheese fats and potatoes are less well digested.

The low residue diet given at St. Mary's Hospital Rochester. Minnesota consists of strained fruit juices broth ter coffee sugar candy made of ugar alone and gelatin made with strained fruit juices. When such a diet is given there may be no bowel movement for as long as eight days.

The authors carried out experiments on doy which had been subjected to colon re-ction with end to end anastomosis of the ileum to the rectum. The details of the feeding and the collection of the specimens are given.

Protein foods such as meat liver gulatin and concentrated broth produced a stool resembling the

fasting specimen

Carbohydrates—rice bread banana apple and sugar—gave a onewhat more bulky stool which was odorless and of a golden color. When surrose dextrose and lacto e were added to the food the stool contained reducing substances. Fatty foods such as lard and butter produced watery and soapy stools. These stools did not contain any more bile than the others.

The rate of pas age of the stools was also studied fats passed through the intestinal tract so quickly that in many cases they were not affected by the digestive juices. Meat had the slowe t passage through the digestive tract. The rate at which the curbohydrates passed was intermediate between that of fats and that of meats except in the case of rice which had a rate even slower than that of meat Luquids increased the bulk of the stool

When sugars such as lactose devtrose and karo were fed the appearance time at the rectum ranged from fifteen to thirty minutes. In the case of lactose and dextrose nothing was obtained after four and a half hours but in the case of karo the bulk of the stool was obtained in from four to six hours. In the case of whole milk the appearance time was thirty minutes and the bulk of the stool was passed in three hours. No difference was noted when the milk was boiled.

Swiss cheese appeared in thirty minutes. Its progress was rapid and it produced enormous amount of fluid residue even after five and a half hours the freed output was large. Cottage cheese acted in much the same www as meat its progress was slow and the curve of its exerction was flat

The addition of milk to other foods did not bave a marked influence upon digestion. In some case it slightly increased the rate and considerably in creased the bulk of the stool. Any interference with digestion seemed to be due to the influence of the casein or lactose

The foods producing the least residue were gelatin sucrose devitose karo concentrated broths hard boiled eggs meat liver rice farina and cottage cheese. Those producing the largest amount of residue were fruits potatoes lard butter. Swiss chee e soft boiled eggs raw egg albumen milk and lacto. The largest amount of dry residue was produced by raw egg albumen and the largest amount of moist residue by bananas. In some cases bananas produced a stool larger than the original meal.

The authors conclude that milk should not be given when a low residue diet is desired

WILFRID I GRAHAM M D

Navarro Three Cases of Duodenal Compression
(S r tr s ca de omp essi n duod'nale) Bull t
m Soc n t d chir 9 lui 323

In the first case of duodenal compression reported by Navarro there was a history of dyspepsia over a period of years which finally ended in gastrie stasis with comiting When the patient wis examined by the author a mass felt in the pyloric region was thought to be either an ulcer or a careinoma. At operation this was found to be the inflamed head of the pancreas. The peritonium over the gland was plit and the head of the pancrens freed. The opera tion was followed by considerable restlessness and vomiting but the patient recovered and twenty one veurs afterward had had no return of symptoms Navarro attributes the stormy postoperative course to operative trauma to the collag plexus. The fact that the inflammatory mass compressed only the duodenum leaving the bile ducts free he explains by the difference in the relations of the two embry ological anlagen of the pancreas the posterior lies in relation to the common duct and the anterior in relation to the duodenum

In the second case reported the obstruction was caused by tuberculous glands among the mesenteric vessels. At a previous operation tuberculous peritonitis had been found. At a second operation the glands were removed. Two years later symptoms of duodenal obstruction again developed and at a third operation a tuberculous gland was found at the same location. Navarro is opposed to gistro enterostomy and duodenojejunostomy in the cases be prefers simple removal of the glands.

In the third case reported the condition was due to the traction of a floating kidney on the peritoneum over the duodenum A nephropevy was done through a second incision in the lumbar region Since the operation there has been no return of symptoms MICHAL I MISON MID

Eliason E L Rupture of the Bowel at the Duo denojejunal Junction 1 n 8 g 19 8 kxxx 1

The patient whose case is reported in this article was a man twenty four years of age who had been

struck in the abdomen by a plank thrown from a re olvingsa The accilent cause llos of conscious e sf rafe m ment follo ed by severe abdominal pai na ea d mit g

pair ha ca a ming mutted to the hop rai fiftee ho little his top rature pail e epi tion a fiftee ho little his prature pail e epi tion a capable and the same and

the t The a gene lize te der a d pa A tent ti e lag o of ruptu el 1 u as made At p t p f me [s tee ho ace lent the perit ne m fou d mak !! n je tel I fillel th lymph a I flu l Whe the grat mentum dt ns recolo e e del se ed a large quantity of the patie is part. Ily dige tell beakfate jel for the blom n Frthe ean to hilel agg dta botas lontilng liquely frm in f ont f the h t h f the i junum ne r the me nt ry ar und the free brde and r throtri vall of the last t n of the lu le um Thet a a l elby a double r futu and the idm the flu h lath lda el par b lly a llocall lts l t Ih pat this m th n lsc efr x la lut the 1th la had pileptif m eon ulı ltg hour Oue t n g then el ted hitr of ei lep Rm al fth ab Im n I les ng fe hur ft r the zu li el el uptured u d th me tum lalor lalop

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g aftell the R | n meth | Reco cv un tful ni the p te t rep rtel thee month lat that h n np f t health H R W F M D

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gruze wick placed in the cul de sac and the abdo men clo ed th metal wire

Dra nage va profuse and the skin became extens v livintate and ule a ted. On the sit th day the sutur—ga e wav permitting the abdominal ound to gape videly. The patient survived an attack. I br nchopne monia and thereafter his condition remaind good. The draining ceased one month afte the operatin.

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MELCHIOR stated that he had obtai ed good re its f om duod nojejunostomy in a case of vicio s KOLICZEN reported a ca e of intestinal obstrue toon nine days after a gastro enterostomy, in which the picture of acute gastric ileus quickly developed At a second laparotomy performed on the tenth dry a Witzel fistula was formed on the anterior will of the stomach and a tube was introduced through this and the gastro enterostomy opening into the efferent loop of jejunum. The vomiting then ceased and feeding was possible. Following removal of the tube at the end of two weeks there were no further disturbances of intestinal function. Hyper.(Z)

## Paulson M Chronic Ulcerative Colitis with Reference to a Bacterial Etiology Experimental Studies Irel Int Med 1928 alt 75

I aulson studied fourteen cases of chronic ulcerative colitis with reference to a bucterial etiology. The methods of study are described in detail

Ten distinct types of streptococci were isolated from the base of the ulcer or from hyperæmic tissue in the rectum. No one type was found in more than three cases

Five of the seven types injected into the blood stream of rabbits produced a lesion. Thirty four rabbits were used. Of the thirty which came to necropy fourteen showed lesions primarily in the colon and rectum. In twelve rabbits the lesions were associated with dharrhα a without mucus or blood.

Twenty rabbits were injected with seven types of streptococci from sources other than the bowel in cases of ulcerative colitis. In twelve of the sixteen which came to necropsy there were lesions similar to those in the previous group but fewer of these lesions occurred in the colon and rectum and a greater number elsewhere in the intestinal tract Nine rabbits showed clinical symptom of the disease without the passage of mueus or blood

The author concludes that the lesions were the same although the organisms were from a totally different source and that there is no morphological difference in cultures from the base of ulcers in chronic ulcerative colitis and those made from cleansed surmoids

In a comparative study of the bacterial flota in a small group of normal persons and in persons with ulcerative colitis he found the bacillus coil bacillus welchild and streptococcus to be more numerous in the latter group. The role played by the bacillus coil and bacillus welchild was not determined.

Bargen established the fact that the streptococcus described by him—which is not chracteristic mor phologically of any one type of Gram po itive coccus inhabiting the normal or discased intestinal tract—cun be isolated with some degree of frequency in chronic ulcerative colitis and will produce k ions in the rectum and colon llowever he has not per formed control exp riments to establish specification and his vaccine theraps appears to be non specific

The author gives Bargen credit for stimulating research in this field but on account of the similarity of the results of these experiments with two groups

of streptoeocci—one from ulcerative colitis and the other from other sources—he muntains that the bacterial etiology of ulcerative colitis is still unde termined Wilfrid L Granam M D

Blanchi G Adenocareinoma of the Crecum (Gh ade o arcinomi del cieco) i n ilal di chi 1927

Two cases of adenocateinoma of the exeum are reported One was that of a min fifty four years of age and the other that of a man fifty five years old Radical operation was performed in both and both patients are still in good health one thirteen years and the other three years after the operation \(\bar{\chi}\) histological discription of the tumors is given

These tumors are quite unusual. They may be either inflitrating or localized. Those of the former type infiltrate the wall of the intestine for varying distances forming a sort of cuff around it and transforming the bowel into a rigid smooth tube. Those of the localized variety are generally irregular or nodular and attached to the intestine by a small base. These tumors are thought by some pathologists to be caused by traum or nery elesions but are attributed more generally to a slow process of in flammation.

Intestinal occlusion is a late sign. In the early stages the symptoms are indefinite consisting of slight intestinal pritation with irregularity in defection and the admixture of gas with the faces. In some cases the first indications of the condition include the presence of traces of occult blood in the faces. Later the stools are mixed with pits mucus and macroscopically visible blood, and there are signs of occlusion. Attacks of more, or less intense colic occur as the tumor develops. The literature reports cases of tumor of the execution and ascending colon in which the condition was mistaken for appendicties.

Anemia and deterioration of the general health are relatively early signs. They occurred in the author's first case before there were any indications of stenosis. Some surgeons state that pertumbilical pain is a sign of the condition especially when obstruction of the decoracil valve is threatened.

Age 1 not of much value in the diagnosis because the tumors may occur even in early youth. As a rule their nature can be determined only by opera tion and laborators examination. The treatment is as complete removal as possible. Rountgen treatment has not proved successful.

AUDREY C MORGAN M D

Wakeley C P G and Gladstone R J The Relative Frequency of Various Positions of the Vermiform Appendix as Ascertained by an Analy is of 5 000 Cases I ct 19 8 cc 1 t 8

As the position of an inflamed and gangrenon reprendix and its relationship to adjoining parts frequently determine the site of an absces it is important for the surgeon to have some knowledge of the relative frequency with which the aroundix

may be found in va ious s tuations and its relation sh p to the su und ng pouches and folds of p n toneum In a stud of 5 000 cases the autho s found the appendint his following post ins

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In the resection of a tumor the appendices epplotes may be left if there is not much fat but if they a large lamelliform disputiform or conflect that which is a large lamelliform disputiform or consuturing it generally sufficient to denude an area of 8 mm on each side of the ln of incision that is remo one appendic epiploica. This zone should be oblique and near to the tumor at the mesente chorder than at the free border. The section is huld thin bim of obliquely and the intestine tirtledg to dige.

A DREA ( M GA M D

cnm f the Re tum 4# t M J 98

MECHING tt that ctl caners constitute about 4 pr cnt fall cance and in the U ited Nats a pon bl f r mo e th 3 000 death e h vea Whin a p tent who has all a was b negul r in h s bo U habt seeks el f from an usu i ani ob tinat contipation thorou h re tal amination i indicated a in su h cases in a constitute of the cum is vey likely the distribute of the trum is vey likely the distribute of the cum is very likely the cum is the cum is the cum is the cum is very likely the cum is the cum i

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fossa at the level of and medial to the anterior superior spine and extended to the midline just above the pubis and slightly ever to the right side of the abdomen. The loops of intestine are packed aside and the tumor is explored with regard to its connections and the extent of its invasion. The meso rectum well pread out is then drawn to the left and its right leaf is incised about x cm in front of its reflection onto the posterior peritoneum. The same procedure is done on the left side the intestine being swung toward the right. Finally the peritoneum is incised at the base of the cul de sac the two lateral incissions being joined in the mesorectum

It is then easy to free the rectum completely—in front following the rectovaginal or rectovesical cleavage plane and behind following the booy plane of the sacrum the entire rectorectal area being freed and the rectum together with the fatty cellular tissue the glands and the vessels which he in the mesorectum or its base heing pushed forward

When the position of the superior hamorrhoidal artery has been ascertained the mesocolon is cut between forceps just to the level of the future sec tion of the colon By drawing the rectum upward and forward the apparently maccessible deeper seg ments of the rectum are delivered with surprising facility Two L shaped clamps are then placed on the rectum as low down as possible the bowel is divided between them and the cut edges are iodized The proximal end is temporarily covered with a pad and the distal end is closed with two lavers of sutures Although there is no peritoneal invest ment the danger of infection is minimal because of the absence of tension on the sutures The pelvic cavity is peritonealized by suturing the cut edges of the peritoneum. The iliac colon is brought out through the left corner of the parietal wound the excess removed and the wound closed. After two day the clamp is removed to permit the escape of gas and facal matter

Although this operation is indicated particularly for carcinoma of the lower sigmoid or upper rectum it may be used also for lesions higher in the sigmoid in which end to end union of the colon would be too difficult.

In a series of thirts one cases treated by the Hart men operation which are reported in the literature there were two deaths a mortality of 6 5 per cent It is still too early to judge the late results but the first two patients operated upon by Hartmann in 1920 were alive and without recurrence in 1927 Soupault reports three cases of his own in which be performed the operation described

LEO M ZIMMERMAN M D

## LIVER GALL BLADDER PANCREAS AND SPLEEN

Moynihan Sir B The Gall Bladder and Its Infections B it M J 1928 1 1

Infection of the gall bladder may be primary as when a solitary cholesterin stone is formed and pro

duces inflammatory changes by obstruction or irritation or secondary occurring through the blood stream by the lymphatic route through the bile stream (discending from the liver or ascending from the inte tine) or by direct extension from a viscus to which the gall bladder is adherent.

Secondary infection of the gall bladder through the blood stream may be arterial or venous. It occurs through the eystic arteries only in case of general septicemia. Venous infection occurs by thrombosis from the portal veins and is very rare

Iofection through the lymphatic route often occurs from the liver as the result of a preceding hepatitis. Enlargement of the cystic gland is evi

dence of gall bladder infection

Infection ascending from the intestine frequently has its origin in the appendix. The association of splenic disease with liver and gall bladder disease is common. Multiple stones and mud are some times present throughout the ducts in the liver. In such cases the author passes several small tubes up into the liver and applies the Carrel method of intermittent irrigation for several weeks.

Of a series of eighty one cases of gall bladder in fection the condition began in the outer coat of the organ in sixty three. Infection may reach this coat by direct extension from the liver by lymphatic infection from the liver or by extension from an adjacent organ such as the appendix. When infection begins within the gall bladder the ascending route is sometimes followed. Cholecy stitus is usually only a part of an infection having its origin else where

After a consideration of the pathogenesis of eal cult the author concludes that it is useless to expect to cure cholecystitis medically if the origin of the condition is on the outer coat of the gall bladder

If medical treatment of gall bladder infection is to be of any avail the early symptoms must be recognized. These symptoms are discussed.

Of all forms of dyspepsia the most common form is that dependent upon the gall bladder

When early symptoms are noted and there is no cholecy stographic shadow or the shadow is dimin ished in opicity or delayed in its appearance the integrity of the gill bladder may be safely suspected and a cholecystectomy performed

The gross appearance of the gall bladder may be httle changed when the microscopic involvement justifies ablation. Cholecystectomy is indicated more frequently than it is done

MARCLS H HOBART M D

Toland G G Gastro Intestinal Symptoms Masking Gall Bladder D sense Cal forn a & West

The author states that in the majority of cases of gastric disturbance referred to him there is no organic lesion of the stomach. He calls attention to the atopical type of early gall bladder di ease in which the symptoms are of reflex nervous origin and reports cases in which though the clinical

symptoms yere not really attr butable to the gall Hallr Inparotomy r aled gross pathologic I change in the lilary tract And twd c f hole y tasi the app an far cuain the roentgenogr m f th t ma h

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### Willis B C Congenital Cy to DI t ton f the C mmon Bile D ct 1 5 r o 8 l

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s preva usly a hen he had a nocturnal attack of severe pain follo elly sorenes in the upper ab I men which require I morphine On his admission to the he tital high so of recur interpendents some and and toperato the appe hix and a M ck l livert culum ve e remove i The reg on of the liver nl its lucts appeared to be negative Ab ut eve months later the patient was read mitted t the hospital vith a history of se ere epig stric pain Bet een the attacks he haln ds comf tand was able to ext any kind of f od. The as no ) unlice belching and the sto leere not cl v colo ed The pre ope ata e d agnos was h drop f the gall blaller Ope ation re ealed a c st of th comm n duct hich co tained 400 c

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blood transfusion It is contra indicated in the presence of nervous complications a red cell count of less than 1 000 000 and a hamoglobin vilue of less than 35 per cent The uplustic type of anemia does not respond to splenctomy.

In children the cryptogenic type of pernicious anæma may be treated in the same way a in adults but splenectomy is less often indicated. In the pseudoleukamic splenic anæmia of the von Jacksch Luzet type splenectomy is indicated only exceptionally.

In leukæmas splenectom, has been practically abandoned except in cases of floating or painful spleen and those with pressure symptoms

MICHAEL L MASON M D

Spence A W The Results of Splenectomy for Purpura Hemorrhagica Brit J Su g 1923

The histological changes in the spleen in purpura histority are those of a general hyperplass of the endothelial phagocytes. The prolongation of the bleeding time is associated generally with a decrease in the platelet count. The congulation time is normal. The prolongation of the bleeding time is probably due more to a defective quality of the platelets than to a decrease in their number.

The transfusion of citrated blood may be followed by a temporary decrease in the bleeding time to normal and a temporary rise in the platelet count

normal and a temporary rise in the platelet count Purpura hamorrhagic may be acute or chronic Splenectomy is beneficial in 80 9 per cent of the chronic cases and in 166 per cent of the acute cases

In most case, in which splenectomy is successful there is a decrease in the bleeding time to normal and an increase in the platelet count to or above normal. The normal number of platelets may be maintained or their may be a gradual fall to throm bocytopania. In some cases there is no rise in the platelet count nor diminution of the bleeding time.

The immediate effect of splenectomy on the blood picture is an increase in the crythrocytes and a leucocytosis with a normal proportion of cells. The

leucocyte count falls gradually

It is suggested that purpura hemorrhagica is a disease of the whole retriculo endothehal system and of three types depending upon the extent of the involvement of this system. The effect of splanectomy in a given case depends upon the type.

HOWARD I MCKNIGHT M D

### MISCELLANEOUS

Harrington S W Diaphragmatic Hernia trel

The embryonic formation of the diaphragm predisposes to herniation at certain sites The symptoms of disphragmatic hernia are varied and chinical diagnoss is difficult without the aid of roentgenological examination. Obscure symptoms in the upper part of the abdomin demind centification of the disphragm X-ray eximination is often helpful also in determining the site of the hernial opening.

When the diaphragmatic herma produces mild symptoms without incurrectation of viscera the patient may be kept under observation and medical management but progression of symptoms calls for operation. When ther, are definite attacks of obstruction due to incarceration or strangulation of abdominal viscera operation is imperative.

The operative approach may be thoracic abdominal or abdomnothoracic but the abdomnal route is usually best. Closure of the hermal opening is essential for the rethe of symptoms. The suturing of hernated viscera to the abdominal wall or the hermal opening is palliative. Paralysis of the diaphragm by phrenic neuroctomy is helpful in the closure of large hermal openings when considerable tissue has been lost.

The operative risk is not great in the eight cases reported there were no deaths. The best surgical results are obtained in the traumatic cases. In all of the three traumatic cases reported the relief of symptoms was complete. The results of the operation through an abdominal incision are satisfactory in the eight cases reported there was only one recurrence.

Millar T M W Intra Abdominal Hemorrhage in Males Fd bi 5h M J 928 xxv Me l h r Soc Edinbur h

Millar reports three cases of intra abdominal hemorrhige in males. In the first and second cases the hemorrhige followed a severe crushinginjury of the abdomen. In Case 1 the spleen was found free in the abdominal cavit. Following ligation of the pedicle the patient made an excellent recovery. In Case 2 that of a box is years of age, the hemorrhige was due to a liveration of the dome of the liver. The lesion was treated by preking. The preking was removed on the seventh day without recurrence of the hemorrhage and the box was discharged at the end of three weeks.

In the third cas the hemorrhage occurred while the patient was straining at stool. Laparotomy revealed a pedunculated cystic leionmoma of the posterior will of the stomach which filled the less or sac. The blood escaped to the general peritoneal cavity through the foramen of Winslow. Removal of the cyst after clumping of the pedicle was followed by uneventful recovery.

In each case a transfusion was given after the operation Wilfrid Crimin MD

### GYNECOLOGY

#### UTERUS

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m ta and d ea es of the endometrium. As a rule n thrl f the muco al area should be left If the pat the rached the menopause little blect can be assed t hysterectomy Prior to the meno p u e m omectomy preferable and even in cases

of bm ous tumo sal as pos ble if the sur op ranc d If the muco a at the lower not n of the ut r s is some shat hyperplastic a cur ttag tha loel blade will so red ce it that f rtb r c i e hæmo hag vill be obvated

r ats operation can be perfo med by eith th bl m il or the aginal route In case f bleed ng of myst rious origin at f mv m

n a the m n p us nd c es n which fi ation f the t us to the anterior abdom nal wall is to foll v th ab 1 minal ro te should be chosen The aginal r t t or f rable wh n some form of lover 1 to u ha th W this Freund Wertheim op t be p fo med The latter is convenient of f t omen at or beyond the meno crat ı the c p u e pa t cula ly if beginning mabignancy of the fundu susp ted since if such a condition is d's o el vaginal h st r ctomy may be sub tituted f th cons r at e p rat n An ther ad ant ge of this op att n is th t all f the d seas d tissue come u d r th v f the su geon thus nabling him to r ogni e and p e crye the no mal t ssue

Th te h tqu f the bdom nal and v ginal pro dur s d c bed v th the aid of illustration RT M GRIE M D

Heyman J R d l g c lor Operatl e T tment f Cance of th Ut us t l d ol g 7 16₹

Heym n ha endea ored to collect all omplet tatt ties publ hed in the literature pertai ng to the esuits of ext nded operations for cancer of the utc i e v These figur s which include the ults of operative the rapy have been p tly r computed according to uniform p neiples n o der to d te m nc e actly what has been acc m pl h d The h gbest figure that can be reasonably f ed as rep nt g the absolute result in op

The tat tics from Rad umhemm t are based n 500 cas f ca cinoma of th uter n cer ix treat d adiologi ally n the first place and Arcssnot tre ted The m t c e vative figure f r the ab s lute esults that can be deduce If m the stat tics is 07p cent

t SS202 Drent

In two thir ! I the p rate c statist cs refe red to the numb r of op rable 586 pr cent r mor in the stat stics from Rad umhemmet 266 pe cent W th due eg d to this difference in the init al m te ial it can of b co sd d too bold to conclud th t the rad ological treatment as p ac

ticed at Radiumhemmet in respect to the absolute results in the treatment of cancer of the uterine cervix is superior to operative treatment

Regarding the results of the treatment of operable cases alone the radiological statistics are still too small to allow of any comparison with the operative results but the figures so far available lend no sup port whatever to the assumption that operative therpy in these cases would have accomplished more than the radiological treatment.

The figures hitherto published regarding operative as well as radiological treatment of cancer of the corpus are still too small and incomplete to

permit any definite conclusions

Operative statistics show the ab olute result to 64.28 per cent and the results with operation in operable cases alone 58.8 per cent. The statistics from Radiumheriment include 46 cases with an absolute result from radiological treatment of 43.5 per cent and a recovery percentage in operable cases of 60 o per cent.

These figure seem to indicate that the same re sult can be attained with radiological as with operative treatment

Capizzano N Radium Therapy of Caneer of the Cervix of the Uterus (Raliumterapia del can er del cuello del utero) Bol Soc de obst y g nec d Bu nos 11 es 927 vi 517

The author reports 216 cases of cancer of the cervix of which 73 were treated in 1924 60 in 1925 37 in 19 6 and 46 in 1927 In 13 cases the lesion was a recurrence after a Wertherm operation and in g a cancer of the stump after subtotal hysterectomy Twelve cases had been treated intensively with roomt gen rays and radium. In 3 cases there was a fistula and in 3 others the lesion was complicated by preg nancy In 177 of the cases the condition was an inoperable vegetating carcinoma and in 59 a car cinoma of the cavity All of the 73 patients treated in 19 4 were in a very serious condition. Twelve of these patients are still alive after more than three years to others were still living in 1926 but have not been heard from since and o are dead Nothing is known of the rest. This gives a survival for more than three years in 16 43 per cent of the cases and of more than two years in 30 14 per cent Leaving out the hopeless cases in which radium therapy was given only to please the patient 12 ( 2 22 per cent) of 54 patients survived for more than three years and 2 (44 74 per cent) survived for more than two Vents

In cases of tumor of the cavity with great infiltration the author uses a filter of 2 mm of gold for seven days giving 40 to 50 mc in cases of vegetating carcinoma he uses 0 5 mm of steel

In some cases in which radium brought about di appearance of the tumor operation was per formed afterward. Of four patients treated in this way two died after the operation. In the cases complicated by pregnancy the lesson cicatrized pricetly without changing the course of the preg.

nancy I wo patients were operated upon before reaching the fourth month one of these died after the operation

I AVLOVSKY in discussing Capizzano's paper said that in December 1924 he had reported thirty cases of cancer fourteen of them treated with radium exclusively. These were very advanced and inoperable cases Eleven of the patients had died but three were still living. The latter have died One whose condition seemed to be very favorable died of generalized abdominal metastases and cachever two years and six months after the treatment Since then I avlovsky has treated three other moperable cases. One of the patients died the second is well and the third is in a very favor able condition. The third patient sixty three years of age had an inoperable cancer of the cervix. The first series of radium treatments was given Septem ber 3 24 and 5 1925 the second on December 5 1025 and the third on December 20 and 6 10 6 On November 10 19 7 the patient was in very good condition

Bevaouer reported that be has treated eleven case with radium exclusively. Two of the patients died and among the nine others there were four good lute results four poor results and one medicore result. Four of the patients are living after three years two veins two veins and one year respectively. In fourtien cases radium therapy was given before operation and the results 1.1 Bengolea to be here that it is prictivalle not to operate after radium treatment. The operation is draggrous difficult and momphet and tends to accelerate recurrence Bengolea has had no expertence with radium alone in operable cases but believes from experience in moperable cases that the results would be as good as those of surgery.

CARRINZA said that he did not share the optimism which others had expressed in regard to radium treatment. He thinks that operation is preferable whenever possible and that exploratory laparotomy shows it to be possible in some cases in which it does not appear to be so clinically

In conclusion Capižžano said that in his opinion a survival of more than three years in 1646 per cent and of more than two years in 2 2 per cent of inoperable cases is a very good argument in favor of radium treatment and called attention to the fact that recurrences develop even after a Wertheim operation — Audrey C Moroe v M D

Carranza F and Roffo A H Results of Deep Roentsjen Therapy in Cancer of the Uterus During a Period of Fue Years (R ult lo de la diote apap profu da en el cáncer de la matriz durante cinco a o ) B l S de ob l v ginec de B en s lire 9 7 1 5 8

Carranza and Roffo report the results of deep rountgen treatment of cancer of the uterus in 240 cases treated during the years 19,3 to 1926 inclusive dividing the pritents into four group accord ing to the stage of development of the tumor. In thos of the fir t g oup the tumor was operable and tho e of the cond group lm t lt the tth lmt f rablity n those the tum r f th thrd g up th par metrum was inv ded r bl a d in the e of the and the tuno futhg up th wa a r u condition with lı x a

r operated upon In 10 3 ft n 1 t nt on thin tg pt lathe e dughteen nth the inlt nth f rth The fir t patint till nh Si recrelmy it atm nt with tg n r v Of th patie ts of the rad um nlr se nlgr p the died and the est culd n t be trac lalth ugh it my be a umed thet they ar ndt ngr wo se thle they we lal th

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### ADNEXAL AND PERIUTERINE CONDITIONS

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F nk R T nd Goldbe ger M A Clinical Data Obt ned with the F male S Ho m ne Blood Test J 1 1/ 1 98

The author bri fly revie the fundament I wo L up n h h th ir c nelus ons rega ding the female set horm ne blood test a c ba ed and desc be the tech q f determ 1 g th p esence of the hormone

The n mal react o ar s follo s From the I g n ng t th tenth day before men t uation in the n pr gnant condit on the e is I tile or no h mone n the circulating blood From the tenth day on the h mone; found in higher and higher co cent ation seem gly p oportional to the in ce ng cti its of the corpus I t um In preg nan , ti us ally not f und nt l the t lfth veek This ugg to the the pleentam, haes m the gt l the the rn wed high le el of the ho mone n th blood Th menstrual blo I sh d on the fist day us ally contain a co s d abl quant to of the hormone but the bl od lost on the su ceed ng days conta ns v ry I ttle

The find ngs m d in a t dy of p th logical con d tions an I the c nelusions b ed upon them vere

- 1 Menorrhagia metrorrhagia and puberty bleed ing showed in most cases excessive ovarian activity cyidenced by the presence of the hormone in the blood long after it would have disappeared in normal cases.
- 2 Functional over activity was demonstrated in cases of premenstrual tension without excess bleeding and even in the presence of amenorrhosa
- 3 Amenorrhea is of four types (a) a grave type without a cycle (b) a type with a subthreshold cycle reaction for the presence of the hormone (c) the self limited type with impending monstruction which can be predicted from the strong positive test and (d) the type due to persistent corpus luteum. The gravity of the imenorrhea depends on the type.
- 4 Ovulation and cyclic changes in the sexual organ may occur in women who have never min structed
- 5 The test when positive permits of the determination of sex
- 6 Women who are sterile may probably be classified into two groups those with a normal evele and those with depressed function. In the first group other factors besides ovarian function are involved
- 7 Death of the fetus after the twelfth week is manifested by absence of the hormone in the blood F From Bill M D

## Hirst B C Overin Dysfunction Dependent on Abnormalities of the Ductless Clauds t J Obst & G c 9 8 79

The author discusses the agents and choice of treatment in cases of scanty and infrequent men strution or complete amenorrhear and the accompanying sterility. The three specific agents that may restore or initiate a normal sex physiology are the sex hormone electrical stimulation of the pelvic organs and the stimulating dose of the N ray.

With the first two agents. Hirst has had experience but with the last one he has had none and has

felt reluctant to recommend it until the radical differences of opinion among roentgenologists have been reconciled

During the past year or more he has used a preparation of the sex hormone in about forty cases The results have been in some instances quite strik ing in others negative. On the whole his results were much like those of Frank 1 ratt Allen and others There seems to be no rational explanation of this fact except dosage. If Louve's calculations are correct and if weight alone dictates the dose women should receive 3 000 mou c units or 600 rat units which as far as he knows they have never received. It would appear that at least 100 rat units might be the initial dose to be increased steadily until something like the invariable effects in the lower animals appear. If ampules containing from 25 to 35 rat units are supplied such doses seem practicable. Lowe points out that the sex hormone is stable in the system and that the effect of the injections appears in mice and rats at the end of seventy two hours and that in clinical cases the injections need not be given more frequently than every other day

In regard to ele trical stimulation of the pelvic organs the author feels that he is on much surer ground. He has employed this agent for more than fifteen years and in some cases has e ur d results not to be obtained in any other way negative pole in the shape of a metal ball on an insulated handle resting against the cervix and a large sponge pad on the abdomen Lulyanism (about 12 ma) faradism and the sinu or lal current can be applied. The results have been best in cases of superinvolution but they have be a encouraging also in primary amenorth a and lack of development except in extreme ca es that were obviously hope less Incidentally this treatment will cure per minently the most obstinate cases of constinution and hypertension dependent upon intestinal tox MIDLET M A LLMER M D

### OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

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Plak JO The Inflance of Fb id n Prg n v nd L br S g G GObt 98 1

l l k a that uterin fibroid a se clatve l gr f t r litve ther by imp ng f rt l tv or by l ing lv ab t on The r ffect s prob bly d e t

The d turbance in the norm 1 mentual cycle liting from creul typhangs which affect the lomit 1 ul continuus to the fibro d I have ptul hydrollar aces f submuosad tital growths which disto the court fibe.

uterine cavity and produce atrophy or hypertrophy of the lining mucosa

2 An increased muscular activity of the uterine contractions which are constant and tend to evolve the tumor in the direction of least resistance inward or outward depending upon its relation to the mus culature That this state of intermittent contraction is unlivorable to the growing ovum is evident from the fact that of the author's series of cases of preg nancy occurring in a fibroid uterus a per cent terminated by abortion

Not only do fibroid influence the growth and development of the pregnant uterus but pregnancy has a like effect upon fibroids. The rapid increase in the size of fibroid during pregnancy is due to the increase in their blood supply incident to the pregnancy and their participation in the general succulence and hypertrophy of the contiguous structures It is however the location of the fibroids which determines their effect upon the pregnancy

A subperitoneal fibroid near the fundus may by its weight displace the uterus backward and incar cerate it in the pelvis in such a way as to produce circulatory disturbances nerve pressure and edema An interstitial fibroid in the same location may pro duce no symptoms Submucous fibroids however are extruded more and more into the uterine cavity this producing a pressure atrophy in the overlying endometrium and a hypertrophy due largely to the cedema in the contiguous uterine lining Such a mucosa offers a poor surface for the embedding of the ovum and when embedding does occur pla centa accreta is not unlikely to follow Submucous fibroids also dislocate the fetus in their growth

Tumors in the lower segment of the uterus may interfere with conception by distorting the cervix or changing the character of the uterine ecretion During labor they tend to cause malposition of the child and block delivery. In the puerperium they prevent proper drainage of the lochia

Malpresentation of the child favoring premiture rupture of the membranes premature or dry labor interine mertin and mechanical dystocia are frequent

complications of fibroids

The influence of the pregnancy on fibroids must al o be borne in mind During pregnancy and the puerperium a large percentage of fibroids undergo some form of degeneration as the result of the cir culatory stasis Red degeneration of fibroids which is not uncommon represents the partial death of the tissue within the tumor with bemorrhage into the growth Areas of such degeneration however are usually surrounded by sufficient healthy tissue to insure their recovery. The blood pigment from the hemoly zed cells unites with the necrotic cells

During the puerperium submucous and inter stitual tumors may be extruded into the cavity of the interus and resulting infection of the necrotic mass may induce a puerperal infection with foul

lochia epsis and hemorrhage

Myomata may render pregnancy pathological by causing constant pain increasing the uterine con

tractions and producing pressure symptoms abdom inal distention and cardiac digestive and pul-

monary listurbances

Subscrous tumors usually do not interfere with hbor unless they encroach upon the lower segment of the uterus or are subvesical or intraligamentous or become twisted adherent or impacted in the cul de sac Tibroids that are firmly impacted in the pelvis and displace di tort or block the cervical os may render infravaginal delivery dangerous Infraviginal delivery through a blocked pelvis always has a high maternal mortality

Multiple myomata in the body of the uterus have a direct influence on the character and force of the uterine contractions during labor and favor post partum hæmorrhage by causing uterine inertia They usually delay and prolong the first stage of labor and increase the pain of the contractions. If they are situated in the lower segment of the uterus and prevent the normal presentation of the fetus they may cause early rupture of the membranes In the third stage of labor they interfere with the separation and expulsion of the placenta

However relatively few cases of pregnancy with fibroids require radical surgical intervention the author's series of , ooo cases there were only 60 in which the position and size of the fibroid crused anviety during the pregnancy or labor only 6 in which removal of the tumor was nece sary during the pregnancy and only 4 in which section was re-

quired to effect delivery

The policy should therefore be one of expectancy When the tumor is found in the pelvis in the early months of pregnancy an attempt should be made to displace it with the patient in the knee chest posi tion When this fails the knee chest posture pre ceded by a minute or two of the mule kick three times a day should be tried. The tumor is frequently carried up and out of the pelvis by the growth of the uterus or by the retraction of the lower segment during the first stage of labor Operation is indicated during the progress of gestation only when the tumor is incarcerated when a pedunculated tumor becomes twisted and when a subscrous growth enlarges so rapidly that it embarrasses the heart or respiration or the development of the pregnancy. In cases of red degeneration it is safer to allow the acute symptoms to subside and the pregnancy to progress than to attempt myomeetomy

During labor manipulation through the vagina is of little avail when the tumor is incarcerated and blocks the birth passage. Attempts to displace it manually may result in injury to the mother the child and the neor lasm It i far safer to place the patient in the knee chest polition and vait for the retraction of the lower segment If this does not lift the tumor out delivery should be effected by section followed by enucleation or hysterectomy

All fibroids undergo some degree of a lama inma diately after delivery but many of them particu larly intramural growths diminish in size and dis appear during the period of involution Submucou

programmer has progres ed to the eventh month and the lesson is unilateral it is usually better to temporize but in a few cases the uterus should be empticd to allow proper investigation and operative interference If biliteral renal tuberculosis is pres ent and the pregnancy has not progressed beyond th fifth month (Dubois) abortion should be in duced and the more seriously affected kidney removed. After the fifth month medical and expectant measures are indicated

Cardiobathies Cardiac di ease complicating preg nancy is pre eminently amenable to medical treat ment. Most pregnant women with cardine di case can be carried to or almost to term. In a few cases however the pregnancy should be interrupted. The guides to follow are the condition of the my ocardium and the cardiac rhythm. Audebertin gives the indications for the induction of abortion as follows t Cases with signs of grave myocardial failure

displace without exertion cedema of the extremi itics pulmonary congestion hilateral rales enlarge ment of the liver and tachycardia which resist treatment. When there is mitral stenosis the pronosis without abortion is particularly unfavorable

Cases of complete arrhythmia which do not respond to digitalis

3 Cases of mitral stenosis without fibrillation or ædema but with constant severe tachy cardia

I ulmonary tub reulosis The author reviews the reports on pulmonary tuberculosis in pregnancy which were made at the Congre s of Geneva in 19 3 He takes the stand that in the presence of thi com plication the rule should he to allow the pregnancy to proceed and to treat the tuberculosis If abortion i necessary it should be induced only before the fifth month and then only when it is certain that both the mother and the child would die without it ifter the fifth month abortion is as ociated with more danger than continuation of the pregnincy

Laryngeal tuberculosis If laryngeal tuberculo is is recognized in its early stages interruption of the pregnancy is indicated When the tuberculosis is far advanced abortion will cause an exacerbation

Tuberculous meningitis In tuberculous meningi tis abortion is indicated only if the child is viable

Ordinary insanity occurring in Mental disease predi posed pregnant women does not require abor tion. In the true psychoses of pregnancy due to tovæmia abortion may lead to cure but there i no assurance that it will do so

lcute hydrammion Acute hydramnion is very rare and usually terminates in abortion. If sponta neous abortion does not occur and symptoms of dehydration appear abortion should be induced

Uterine hamorrhage Spontaneous abortion often follows uterine hamorrhage. In rure cases a retro placental hæmorrhage oc urs and demands imme diate intervention. Uterine bleeding is most often due to endometritis low implantation of the placenta or hydriform mole Hydriform mole; a tumor and should be removed. Severe hæmorrhage re quires immediate intervention. In repeated hemor

rhage of less severity the indications are less clear Bonnaire favors abortion when the red cell count is ooo ooo or less A more accurate index to the anæmia is the hæmoglohin. In every day practice the pul e is the supreme guide. When the pulse 1 un der 100 an expectant course may be pursued when the pul e exceeds 100 the indications for interven MICHAEL L MASON M D tion are urgent

### Musses R D Toxemia of the Later Months of Pregnancy Its Prophylaxis and Treatment 1 M d 19 11 535

Mus to licusses the ordinary treatment of tovemia and stre see the importance of prenatal care with special attention to the diet and the prevention of an increase in weight. In severe cases of pre eclamptic tovamia marked improvement re sults from the u e of ammonium chloride or ammo nium nitrate as a diuretic. The accepted method of treating eclamptic convulsions include the admini tration of sedatives the use of lavage and laxatives to improve climination subcutaneous in tramuscular and intravenous medication and termination of the programmy. The question is raised regarding the advisability of exsarean section as a method of rapid delivery in cases of preeclamptic toxemia and eclampsia in the ab ence of dystocia and other obstetrical indications

### Paramore R II Chronic Nephritis Aecidental Hemorrhage and Eclampsia J Obt & G & Beil E p 192 xxx

I aramore states that chronic nephriti accidental hæmorrhage and eclampsin are interrelated and when a woman with chronic nephritis becomes preg nant if abortion or mi carriage does not occur she may eventually become eclamptic or uremic in accidental hamorrhage albuminuria may appear and eclampsia develop even if no evidence of renal disease exi ted previously

While the complication of pregnancy in women with chronic nephritis can be attributed to the nephritis toxamia following accidental hamorrhag 1 beheved to be due to a cause other than renal

The outstanding feature of pre-eclampsia is a diminished output of urine eclampsia and diuresis are incompatible. When women with chronic ne phrits become pregnant they rarely become eclamp tic Eclampsia does not depend on inefficient kid neys alone it requires all o inefficiency of the liver

The clinical differentiation between eclamp ia and uremia is often impossible. A study of the post partal progres is frequently necessary before a diag

nosis can be made

In the endeavor to distingui h between these two clinical entities attention was directed to the state of the blood In general the blood pictures are different. In eclampsia the non protein nitrogen of the blood is not greatly raised in uramin the in erease 1 marked As the non protein nitrogen of the blood in eclampsia is only slightly different from th

normal the circlus on has beindra in that clamps an inta u armia—not fue to an incee of the products; the blood nor that a primery defect of the event ryong.

The autho 1 cusse n det ! th ab orpt n from th inte t nal t act a 1 periph ral t s u s and ts

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oc rred if the patient or not pregnant Intra I lominal perat us should not be performed after the s the month if they can be a oided

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Opratio houll b 1 f dunt laft confi m t [po b] An n s vop ation in be p rt m d pr rt the fifth month f g station with

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### LABOR AND ITS COMPLICATIONS

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Twenty furomen er defitly relyd of pf fmit tight hou e prtly

relieved (one expelled part of the retention enema) In two cases the relief was doubtful one patient was a neurasthenic and the other did not receive sufficient treatment. In even cases, there was no ipparent relief. One of these seven expelled a large amount of the retention enema four others were given only the first injection as the treatments were started too late for the administration of the oil ether Four of the thirty nine labors were appar ently delayed by the treatment and one went out of labor The latter was a multipara who had had in frequent pains for seven hours preceding the initial hypodermic containing 1 6 gr of morphine with c cm of magnesium sulphate. At the time of the injection the cervix was soft and dilated two and one half fingers and prins were occurring every five minutes and lasting thirty seconds. The pelvis was normal and the vertex at the superior strait was in a left occuput posterior transverse position. The only complication was fibroids in the lower uterine segment. The record states that the hypodermic was apparently given too early

The average duration of labor in the entire series was fifteen hours and sixteen minutes. In the multiparæ the average duration was fourteen hours and thelve minutes and in the primipare sixten hours.

and twenty minutes

In conclusion the author submits the reports of seven obstetricians outside of New Nork. In a total of 642 cases the method was successful in 6 per cent partially successful in 21 per cent and un successful in 12 per cent. In a series of 180 cases it was successful in 20 per cent. In a series of 180 cases it was successful in 20 per cent partially successful in 20 per cent and unsuccessful in per cent. The poorest results were obtained in a series of 50 cases in which the anæsthesis was attisfactory in 36 per cent and poor in 30 per cent. The poor results were attributed to in duction of the rectal anæsthesia at the wrong time.

Petris Garyer owno M.D.

Bolmen P A Case of Rupture of the Aorta During
Labor and a Case of Defect of the Septum
(Ucher einen Fall on Aortenrupt runt und
Geburt und einen Fall on Septumdefekt) Z
tralbl f Gin ek 1927 li 398

The first case reported by the author was that of a primpara aged twents sixvers who was brought to the hospital in the minth month of pregnancy with strong labor pains. The histors the disponer and the loud systolic murmur over all of the valves in dicated the presence of a cardiac defect. Shortly after admission to the hospital the patient suddenly raised her elf-collapsed and died. A cresarem section was done but the child was found dead. The autopsy report stretch that the mother's death was due to rupture of the aortia above the valves and at the nortic arch hemopericardium and severe general interio clerosis—especially in the abdominal aorta and the arteries it the base of the found.

ture was the hypertension produced in the injured vascular system during the labor which was in creased as the result of an arteriosclerotic contracted condition of one kidney and hypoplasia of the other

The second case which Bohnen reports was that of a primipara twenty one vears of age who with an existing defect of the septum went through delivery quite satisfactorily except for a tran iteration after expulsion of the placenta (low forceps delivery) Death occurred on the third day of the puerperium. The defect of the septum was demonstrated at autopsy.

Bonney (G)

Rascol Delivery Expedited by Means of Large Median Anterfor and Posterior Intestons Made in the Cervix at the Onset of Dilatation Be cause of Fetal Distress (\*\*accondement brisque, au moven de grandes inci ions m dianes antí ieure et posterieur du col tout à fait au début de la di ta tion pour souff ance [ etal ] B ll S c d obst 1 de gi l e p 1 or 1 555

Rascol reports the case of a primipara four data past term. With the onset of slight pains the mem branes had ruptured spontaneously. When the patient was seen by Rascol oon thereafter the feril heart tones were irregular and scarcely perceptible and could not be counted. Examination revealed a chitation of 1 cm a deeply engaged head and a very thin soft cryix.

A deep incision was made in the midline of the interior and posterior lip of the cervical and the beby immediately extracted. Fen minute were required to a complish resuscitation. Severe hamorrhage occurred as the result of uterine inertia but there will no bleeding from the curvical inci ion.

Examination of the patient at the time of her dicharge revealed no trace of the inci ion in the posterior lip and only a niche of about 1 cm in the anterior lip Connent C Schwerler M D

Rascol Three Cases of Median Anterior and Posterior Incisions Made in the Cervix In the Course of Labor Prolonged by Rigidity of the Cervix (Troi c dinest n doubl med ne a tference et p t i.e. u du lau cours de ce ucle ments dist ciques par rimite du col) Bill S c d bit I de grité d P 19 7 1 5 9

Rascol reports three cases in which anterior and posterior incisions were made in the cervix prior to delivery as recommended by Audebert. The deliatation varied from 3 to 5 cm. the cervices were veryigid and infiltrated the labors were prolonged, and morphine was ineffectual. In two cases the head was low but in one ca e it was high and the pelvis was contracted. Though the incisions can be made with comparative exvictives by touch alone the use of a double blid dispeculum and a Museux forcep is very helpful.

No complections resulting from this procedure have been observed. In two cases examination twenty days after delivery revealed that healing had not vet occurred but an one case no trace of the incisions remained at the end of that time.

\ ray examination should always be made in cases of suspected disproportion

KOBERT M GRIER M D

### PUERPERIUM AND ITS COMPLICATIONS

Zillboorg G Malignant Psychoses Related to Childbirth 1 i J Obst C (v c 198 vv 14

The author stresses the fact that the term puer peral psychosis connotes metels a mental baseder occurring in relation to and usually following child birth and that there is no defanite chinc it attit to be classified under this heading. Disrigarding the toric and infectious psycholes which are the same in pregnant and perturient women is in other subjects both male and female, he raise the que tion as to the ethology of the so called diopythic group. It is possible that the psychie resistance of women with such psychoses is too low to withstrall the strain of childbirth. The ewomen therefore should exhibit signs of low resistance which might be recognized before the development of a definite mental diverse.

Zillboorg has made a search for signs of low re sistance in malignant i.e. hronic and incurable psychoses and gives detailed histories of four typical ca es. He concludes that the patient likely to develop a p vehosis during pregnancy or shortly after its termination will frequently manifest a person ality of the schizoid type prominent elements in the history being a story of premarital shyness an l of persistent frigidity after marriage. Habits of childhood such as encures is or masturbation may be carried over into adult life showing an arrest in the psychophysiological development In antago nism toward the husband may develop during pr g naney and is invariably observed in ev ry puerper il ease of the type under discussion. When a woman of this type has weathered one pregnancy succe s fully her postpartum reactions should be studied very carefully as another pregnancy if permitte i might precipitate a malignant psychosis. This oc curred in one of the ea e reported

E L kryc MD

Seymour II F A Case of Pneumococcal Peritoni tis During the Puerperium with Recovery J Obst & Gy ace B at L. p. 9.7 x 1, 793

Sey mour reports a case of pneumococcal peritoni to which developed on the minth day following a normal delivery. On the sixth day the pritient was given 5 gr of bibydrochloride of quinnie intra musicularly and 60 c cm of polyvilent antistrep torocore serum as it vas beheved that the case was one of streptococcal infection.

On the ninth day a diagnosi of peritonitis was made and the abdomen was open d and druned A culture taken at this time showed pneumococci Convalescence was greatly prolonged the fever persisting for about six weeks

Seymour has found only one similar case reported in the literature 1 H GLADDEN JR VI D

Latzko W The Surgical Treatment of Lucrperal Processes (La terapeutica quirurgica de lo ploces s purperal ) In argent de obstry gin c 197 1

The first extirpation of the uterus in puerperal in fection was performed in 1886 by Schultze in a case of putrid placent; which could not be removed in any other way. The extirpation was suprayagingly

Theor usually the operation is justifiable became if the infection is still localized removal of the uterus will prevent generalization of the disease. However it is extrem is difficult to determine whether the infection is still localized. Latzlo believe as that supravigual amputation is justified in cases with continued high for rand chills. Extraptation in puer part is spais requires particular care on account of the great virulence of the contents of the uterus.

Interperal pyrmia is treated surgically also by lighton of the veins. Latzko presented his first out of lighton of the veins for purepral pyrmia before the Medical Society of Vienna in 1905 and in 1910 he was able to report thirty seven cases to lay heatton of the veins has become an impor-

tant part of his operative technique

I urperal py ima should not be confused with metrophibitus. The latter is a local condition whereas the former is general. It is difficult as in extripation of the uterus to determine just the right moment at which to perform the operation but as these processes are chronic haste is not urgent. At fir t Latzlo ligited the hyogoristic but he now priers to ligate the common and external illusticate the desired of the foot of the thrombosed or for the thromboses have extended to the common line the vena cava may be ligated. Norm 1923 collected from the literature, the reports of seven cas in which ligation of the vena cava was done with recovery in four

The author believes that operation should immediately follow a drigno is of puerperal peritoritis just a cases of rupture of an extra ut rine prignance. The object of operation in puerperal pritoritis is to execute the fluid containing the toxins and virulent briteria to overcome the meteorism and intestinal piralisms and to teat the weakness of the circulation that follows the peritoritis Cenerally the primary focus is not climinated as the particular are not able to stand the operation

Latzlo operates under light other are thesi without the Frendelenburg pointon. When the ris great meteorism of the large intesting the intesting may be punctured and the puncture surred. In tense meteorism of the small intesting may be traited by the formation of a Witzel fistula. These procedures are generally not neces sary.

After having sponged out the exudate Latzlo irrigates the abdomen with one gim of other. For driving, he uses a cofferdam drain which is similar to the rubber dam used in dentistry. The abdominal wound is closed except for the drainage opening and the patient then placed in Fowler's position.

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### NEWBORN

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### MISCELLANEOUS

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of newborn infants are eparated from their mothers despite the measures that have been taken to dis courage the practice. He believes that more aggres sive measures should be taken not only by the State but also by the members of the medical pro-

Many mothers abandon their babies because of shame or poverty making no attempt to see that they are placed so that they will receive proper care The number of abandoned babies is still astounding in spite of the fact that it has slightly diminished In the Department of the Rhone the number dropped from 452 in 19 1 to 377 in 19 5 The mortality among these infants is very high averaging about 40 per cent

The number of infants placed in nurserie or homes shortly after birth seems to be increa ing It appears that in I aris one of every five infants is placed in a nursery. The lack of proper care an l feeding in many such establishments is attested by the fact that of ,0 000 infants so placed in the period from 1920 to 19 6 only ,70 (1 per c nt) were breast fed The mortality of infants cared for in nurseries is at least double that of infant cared for by their mothers

Many mothers are of course ignorant of the dangers of artificial feeding and do not realize the claims that their children have upon them Social conditions also play an important role. In many instances the mother must work and is obliged to place her child in a nursery because she finds it impossible or inconvenient to keep it with her I overty is an important factor. In some cases the lack of proper housing is responsible for the placing of a child in an institution. In a few instances of cour c as when the mother is suffering from tuber culosis dementia or puerperal psychosis separation of the mother and child is advisable

There are a number of establi hments at pres ent which attempt to better the condition of babies kft without maternal care but these tend to en courage rather than di courage the separation of mother and child In many of these nurseries wet nur es are provided so that the infant receives some mother's milk but it is found that the wet nur es child does better than the stranger. In most of these nurseries artificial feeding is practised exclusively and the mortality among the infants is high The best plan seem to be to place the child in a private home where it will receive a mother's care and will be under the supervision of a physician and visiting nurse

Rhenter classifies the measures adopted or sug gested to discourage or prevent the separation of mother and child into three groups the psychological and moral the legal and the institutional. He be heres that every physician should aid in the cam pugn for the education of prospective mothers I rospective mothers should bave impressed upon them the great value to the child of proper care and miternal feeding. In some hospitals the mother is re jured to nurse her child for fifteen days after delivery and it is found that during this time she often becomes so attached to it that she will not consider separation. Some lying in bospitals have a ociated nurseries to which the mother may go for a time after delivery

Legally the greatest help would be assured by some men are which would give financial aid to nursing mothers. There is at present an act which gives each working mother who is nursing an infant ty o periods of one half hour each during her working

day wh n she may feed her child

There are now certain charitable institutions where a nursing mother may receive food. Many of the larg r in lustrial institutions give financial aid to the families of their employees when a child is born and regularly increase the pay of the employee with en h addition to his family Postnatal clinics in as sciation with prenatal and maternity clinics are of creat value

The working mother presents problems which are solved in various ways. If the child can be left at home in the care of some member of the family while the mother goes to work it can be given two irtificial feedings during the mother's absence. The results of the plan are excellent. If home conditions do not permit such an arrangement, the child may b placed in a day nursery. Day nurseries should under very trict surveillance. In Paris about fifty large factories and similar establishments pro vide facilities which make it possible for the mother to bring her child to work with her and nurse it during the day. This plan is excellent and should be encouraged

When the mother is without a home the child is usually illegitimate. For such cases, various types of maternal homes have been founded. In some of these the mother is delivered and may remain for a Others are connected with maternity hos pital while still others have no connection with a maternity hospital but care for the mother and child for from three to eight month

I henter believes that more use should be made of the means at hand that further aid from the state should be forthcoming and that there should be more undesprend education of prospective MICHAEL I MAIN MD mothers

### GENITO-URINARY SURGERY

### ADRENAL KIDNEY AND URETER

M. Kenzie D. M. nd Hathn AR Unl Lite of Renat Antas a S r G 0 1 0 3 1 4

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In the second case an intraperitoneal injury was suspected Operation revealed a bulging of the ascending colon and the peritoneum beneath it The right kidney showed a laceration at the middle of the upper half The wound was bleeding freely but the renal pelvis was not involved. The hem orrhage was controlled by suture of the kidney Re covery followed

The third case required nephrectomy because of persistent bleeding for eight days I velography revealed a severe injury of the kidney The organ was embedded in clot and fibrin and showed several lacerations with marked injury of the pelvis Re

covery resulted

Cases with a persistent decrease in the blood pressure and erythrocyte count and an increasing pulse rate should be operated upon Those with only slight pain and evidence of secondary hemor rhage and with hamaturia as the chief symptom may be treated expectantly in a hospital and kept under close ob ervation until the hamaturia sub Cystoscopy is usually not necessary for diagnosis but should be done in occasional cases to determine the condition of the damaged kidney In elected cases pyelography is an aid. A moderate leucocytosis (13 000 to 18 000) may not indicate infection as it may be due to absorption of the blood clot and secondary anamia

It is safer to investigate doubtful cases under regional an esthesia than to treat them expectantly Regional anæsthesia has the advantage of not increasing the blood pressure. Operation is indicated to prevent exanguination extravasation The morbidity depends more upon the infection state of shock and subsequent infection than upon the amount of the secondary hamorrhage

LOUIS NEUWELT M D

### Cumming R E Polycystic Kidney Disease J Urol 1028 xix 140

Cumming says that a prtient with polycystic 1 id neys is as old as the cyst development. When the cysts reach a certain stage they are ripe and life is no longer possible The completely developed disease has been found at birth as well as in old age In the examination of the patient all diagnostic maneuvers must be made with the utmost care Simultaneous catheterization of both urcters is dangerous and bilateral pyclography is definitely contra indicated

The pelvis of a polycystic kidney is rarely dilated but is usually narrow and lengthened in contra distinction to that of the hydronephrotic lidney The cysts of the polycystic kidney are closed while those of the hydronephrotic kidney are in communi cation with one another Polycystic disease is always bilateral but may be more developed on one side than on the other Frequently it is associated with deformities in the skeleton and in other organs especially the liver

Retention alone does not explain the cyst forma tion The condition is the result of a partial arrest of development at the mesosplenic stage followed by degenerative changes. In adult life the cysts contain blood pus and evidences of infection According to Bransch hæmaturia is a definite sign in 40 per cent of the cases

The etiological factor is an inherited protoplasmic insufficiency which is manifested by delayed differ entiation of cellular unit structure. A familial his

tory is of great diagnostic value

The condition causes pain homaturia albumi nuria and a palpable tumor. I velography shows the renal pelvis to be clongated but not dilated The urine is abundant and of low specific gravity It any time a fital uramia may develop

The treatment is largely medical-regulation of the patient's diet and habits and the prevention of excesses and exposure Conservatism is fundamen tal becau e surgery offers but little Even the evicuation of the cysts advised by Roysing scems a \ stubborn hematuria may be climination is important

The author's conclusions are based upon thirty one cases of his own an I four cases reported by Low BLNJAMINE F R LLER M D

# Thomas G J and Kinsella T I Some Data Concerning the Clinical Course of Renal Tuberculosis J ( l o 8 x );

The conclusions in this articl are based on a study of about 4 500 urine specimens and 660 guines pig inoculations. The material was obtained from a hospital devoted to the study and care of patients with tuberculosis in which each patient whose urine contains leucocytes pus cell numerous epithelial cells or other pathological elements is put through the following routine

The genitalia are cleansed and a voided specimen is examined. If the same findings are then made six specimens one each week are injected into the ame guiner pig Two of these are twenty four hour specimens Six weeks after the last injection the guinea pig is killed and examined grossly ind microscopically The same sediment may give positive findings in a smear and negative results on guinea pig inoculation Large ureteral urines are carefully studied Pyelograms are made unless contra indicated

Patients with extra urinary tuberculosis may have a renal infection. An active early renal infection may be present without characteristic symp toms The lesion may be so small that it does not appear in a pyelogram With the healing of the lesion the urine may become negative. The kidney may become reinfected or the original lesion may become active The early non destructive lesion is difficult if not impossible to diagnose

The authors report three cases of clinically gross or destructive lesions which became quiescent under treatment with rest. In each case nephrectomy

had been refused

Sub eq ent pyelograms hich show a small pel vis are deati of favo able pogr ss If the tient is able t c t th inf ction in othe part of the body and if the u n y ymptoms improve r dis pp a t is tho ght that the k dn , lesion hasa chan th l

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dition of the kidn vs but regards it as advisable in the cas s of pat ents ho are too septic to stand the ad cal peration B NJA IN F ROLLE M D

Kram S E Obe vat ons on tle Rate of U eteral R g n ti n P limina y Rep t S g & Obl q S I

Kram t cite thr experiments n dog which seem to cast som light on the rate of uret ral regen eration and ep thel zati n Su ces ful ana tomosis d c nalization occurred after only five days of b dg g of the u te I gap by a ureteral cath ter Leaking of ur n d d not seem to affect the rate of r pair in ur t r l annstomosi as much as lack of solnt g St of the l m n as found to be I sened by shirt ning the period of bidging Th a tho pr sents the following conclus ons

U to 11 ju y may occur d ring the course

1 lu ult gyrec l g cal ope ati ns Ind lling

r t ral atbet rs hould there re b used duing th p ratio 1 a pr aution against such accidents U t I eg e at on canali ation and ep thel zat ccur rapilly when a u et ral splint i

3 B & e of the true raction aroused by the f ign b dv th pc d of plinting or bridg g sh ld t b u duly prolonged It app are that a splint gipe od of 1 day sample t allow the re tabl hm nt of r teral continuity

4 let alst nomy be petel in early a frt l tmss dimor marked in ci i hich an actual gap bets een the ureteral edg h pr ulv st l
5 U t al llat n is al ays indicated following
t lop rati ns and shild not be delayed too

l g L J KI ATRC M D

### BLADDER URETHRA AND PENIS

G eene I B T umatic Rupture of ti U in ry Bt dd n Children 1 Sr o81

Gr ne pot to cases of traumatic uptur of the bladd in hild en The first was that of boy elev a y ars of ag h as admitted t the hos p tal fter an autom ble c d nt Lxamin ti h I dan irr gular d fo m ty of the lo er th d of th I ft thigh an 1 regular lac rat on of the lat I f e b low this d fo mity and a fract re of th d d g amus of the l ft o pubs The b lom n wa gd and tender \ catheter wh ch p ss d easily thd blood Fluid ntroduce l int the bladder as lyp rt ally rec ered A diag of rupture of the blad le a made and operation p formed a f v hours later

The pa tal pert neum and the vice a vir i u d to b int ct but the pelvi c nt ned on ide ble blood and nume o el t Ih bl d ler show d a gged punct o nd in its left late al Il near the sph ncter and a cl an te about an

unch I gin the midle exted g to but not i volvi g the sphi ct r. The bladd r wa op n for

thorough inspection but the wound was closed from without Suprapubic and urethral drainage was established. On the twelfth day urination was entirely normal.

The second case was that of a girl four year oll who was also injured in an automobile accident. Physical examination revealed bruises in the region of both hips and slight bleeding from the vagina. The entire abdomen was rigid but the rigidity was most marked on the left side. There were no signs of free fluid or gas in the peritoneal cavity. Year examination revealed a fracture of the right ischium without displacement. A catibeter in the urethra drained only a small amount of blood fluid introduced could not be recovered. A diagnosis of extra peritoneal rupture of the bladder was made.

It operation there was no evidence of intra peritoneal injury. The preperitoneal tissues wer suffused with blood. The bladder presented in the midline above the pelvic brim and the urethra was completely torn across just distal to the bladder The internal sphincter was intact. The blatter contained about 60 ccm of clear uring vaginal walls showed severe lacerations a far as the cervix and the pelvic fascia was severely lacerated and bleeding profusely. The bladder was drawn down into position by means of a catheter introduced tbrough the external urethral orince and fixed with catgut The pelvis was then packed with gauze and the wound closed Convalescence was somewhat disturbed and on discharge from the hospital the pa tient bad incontinence of urine. At another opera tion an attempt will be made to reconstruct the urethra by means of a plastic procedure

CLAUDE D HOIMES M D

Cabot II Catheter Cysticis—1 Misnomer J Ind and State M tss 1928 vvi 1

The author believes that the technique of the surgeon and not the catheter is the es ential factor in the production of so called catheter cystiti

In cases of reflex retention of urine such as occurs after operation or severe injuric catheter cystits is of frequent occurrence. In such cases the reflex mechanism of the bladder is temporarily deranged and although the bladder is known to be uninfected and the urinary tract normal reflex retention and overdistention follow the cytheter is used and infection results in from 15 to 20 per cent of the cases:

An overdit tended bladder furnishes a prepared soil for the growth of bacteria. Therefore over distention should be prevented. The average nor mal capacity of the bladder is beheved to be 10 oz Routine emptying of the bladder should be done when this point has been reached. Of course, this can be only guessed it but the surgeon should witch the second six hour postoperative period rather than the third and anticipate the development of overdistention. If infection occurs when this plan is followed it may be expected to disappear.

THOMAS & FINEGEN MD

Ormond J k Diversion of the Urtne in Intrac table and Incurable Vesical Tuberculosls J U ol 1928 xix 109

Four conditions in which resical tubercule is may reast local treatment to the extent that some form of operative intervention becomes necessary are (1) blatteril renal tuberculosis () tuberculosis of the kidney remaining after nephrectomy (3) intractible cystits following nephrectomy with possible structure of the orifice and hydronephrosis of the rim inning kidney and (4) advanced genital tuber culosis in the male

The end results may be considered satisfactory only when the pain is relieved the patient can be k pt dry and free from odor and the apparatus used

is incon picuous and easily applied

The author mentions eight procedures but regards inguinal uncterostomy as the method of choice in most cases. He reports a case in which tuber culosis was found in the kidney remaining after a nephrectomy performed three years previously. The dilated ureter was cut across as near the blad der as possible and the end implanted in the wound in the inguinal region. Rebef bas been complete Before the operation the two hour phtbalin output could not be r ad. Five months after the operation it was r pur cut. The patient's general condition has improved to such an extent that she is able to continue her work. The urine drains into a bag through a rubber catheter which is inserted in the

Inguinal ureterostomy is simple quickly per formed and comparatively free from danger. The fistula is easy to care for a

fistula is easy to care for a In exceptional cases fowel implantation may be justifiable but is associated with much greater risk.

Cr wos D Present M D

Hager B H and Magath T B The Formation of Vesical Calculi J in W 4ss 928 xc 66

The authors report cases of urman, lithiasis in which protein ammonize was isolated and adduce evidence that under favorable conditions calculican be produced in the blidder experimentally by means of protein ammonize. They suggest that a deficiency of Vitamin A may be favorable to the implantation of proteins ammonize.

Areutzmann H A R The Cause of Renal Back Pressure in Obstructive Lesions of the Urethra and Bladder Neck J Ur 1 1928 1x 199

The author reports investigations carried out to determine the cause of dultation of the upper part of the urmary tract in cales of obstructive lesions of the neck of the bladder and the urethra in adults Cystograms and pyelograms were made in cases of prostatic hypertrophy and long standing strictures of the urethra. The pathological changes and method of formation of organic changes in these conditions are practically identical. In some of the cases a marked thickening of the wall of the blad der was found. Great difficulty was experienced in

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Tl author mphasi s that the nly ndication for th u f th etention catheter in 1 jures of th ur thra 1 a complet intrapel ic rupture. The object n t th to ton atheter in the treatment ol l son of the bulb u urethra-its stimulating ff t on th 1 m to of fb ous to ue-is not val l n th case f the membranou ur thra as the I tter h littl tend nev to and tricture f rma t n

Th rk l k d i Past au Isel n Heintz Boyer nd M 10 on ptu s of the urethra is revie ed Eu II u D

### GENITAL ORGANS

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ym t Befo e and After Prostatect my J 1 1 95

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are described. The results in selected cases are reviewed and important factors in the postoperative treatment are discussed. The article is sum

marized as follows

The cutting high frequency current in the form of the electrotome will efficiently cut through fibrous scar and carcinomatous tissue at the blad der neck. Fifty one patients have been relicived from bladder neck obstruction by this direct vi ion method. Two patients died of pneumonia and one of carcinomatosis. The current cuts instead of cauterizing hence there is no thick lough or secondary hamorrhage. I rimary bleeding has never been more than enough to make the urine pink or sherry colored with at times small clots. The procedure described is a minor one giving rike in major lesions apparently without grave complications.

### Hunt V C Posterior Excision of the Seminal Vesicles for Surg 1928 I xxvi 5

The perineal route has proved satisfactory for the removal of uninflamed seminal vesicles but in cases of disease of the vesicles with a perine route reaction the perineal exposure is not a legistic freedom the complete removal of the densely adherent structures. Hunt believes that the indications for animal vesiculectomy should be restricted to case of disease of the vesicles that are not amenable to me heal

treatment In the operation for posterior excision of the seminal vesicles the use of sacral anæstbe ia and the prone position on the table with elevation of the pelvis are factors of importance for complete re-laxation and adequate exposure. The incision is made in the median line and extended from about 2 5 cm above the anus-or sufficiently far above the anus to avoid division of the anal sphincters-to just above the sacrococeveral articulation. It is carried down to the levators and and the latter are divided in the anocoecygen raphe Lateral retrac-tion of these muscles immediately exposes the rectum which is supported more or less loosely by arcolar tissue Excision of the tip of the coccvv facilitates mobilization of the rectum and the lower portion of the sigmoid by detaching them from the anterior surface of the coccyx and sacrum. It is emphasized that this procedure obviates the necessity for excision of the entire coccyx and for the higher transver e division of the sacrum which has been

The seminal vesicles are separated from the rectum in their lower third only by the retrovesical fascia. The reflection of the peritoneum covers the superior two thirds of the vesicles and is readily deflected upward after division of the rectovesical fascia. By mobilization and lateral retraction of the rectum and the lower portion of the sigmoid after division of the rectovesical fascia the vesicles are immediately exposed and their complete removal by visible di section is rendered possible.

done in the more formidable methods of posterior

excision of the ve icles

Extrpation of the vesicles may be accomplished with or without ligation of the vas deferens. How v.r. if there is a marked inflammatory reaction the vis may be divided. In the cases reviewed by the author three were no severe hemorrhages and the moderate oozing which sometimes occurred was controlled by a light gauze pack left in place for several days.

Because of the accompanying perivesicular in from drainage was instituted in every instance Micr removal of the visibles the wound was closed by uturing the levitors and together in the median line. In every case healing occurred without Issuirbance of function of the levators or of the anal solutions.

The author concludes that when the indications for seminal vesiculectomy are clear and based on definite pithologial changes in the visicles the method described is not formidable obviates the danger of injury to the anal sphiniters and facilitates viable extripation of the vesicles.

# Kilfoy E J Teratoma of the Testiele-Dingnosis and Treatment C l for S | l | l | lf | d | 19 | 8 | vv | 11 | 1

Teratoma of the testuele may occur at any age but is most common between the second and third decade of life. The average age of ten patients who e cases are reviewed vas twenty mile and y hall years. The tumor is potentially mulginant to a high legree and the size of the primary tumor is no criterion of the durition of the lesson or the size of metastases. If curcinoma is present in a teratomy the prognosis is extremely poor. If the lesson is strictly a teratoma, the prognosis is extremely poor. If the lesson is strictly a teratoma, the prognosis is much more favorable.

Because of the difficulty in making a correct clinical drignosi every questionable testicular tumor should be subjected to surgery and the tis us removed should be examined microscopically by a pathologist.

Terntomata are much more frequent than is indicated in the hterature. The relative amount of blastodermic tissue varies greatly in different specimen.

The surgical treatment should consist in at least constration including removal of the vas and inguinal lymph nodes. Operation should be followed by X ray or radium treatment or both

When the patient is dismissed he should be in structed as to what to look for and to report for a check up examination every three months for the fir tyear and every six months for the following five years.

### MISCELLANEOUS

Bandler C G and Allian J A The Practical Value of Chemical Analysis of the Blood in Urological Conditions J Urol 1928 xix r

The authors made a study of 1 200 cases of uro logical conditions from the standpoint of the chemi

I chang to bl d and the cl clc urse It of the ch m lanalys s of the blood in 11 f n l mpa rment due to a pathologic l thu astactar opoted n letal im n t ated th impro m nt l fth It tin that fillo I f fu v b t 1 l t pr tat h p tr phy and th f r hill t the tput f in Pr t mp m tn nlfntodm h l k Inrangth flul ntak ha an ii bliff t tognet ton nly ha that moved
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if t f th n t t due to colif rm bac term r i th mpt m but l not cure the nfe to Alk I sdo tha b t chlact In mpteofth hng id cdby thm th h l g n ion con t ton d d Th ! I lk l | be ad q t ly contr ll d by t ts of the r a tion of the urine only if certain precau t na beved

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LVERIO 1 tate I that n over 50 per c nt of the ca s of imple py ria in children the cau e of the ond tn gt nttll ordr In cases of I ou ither u ng attack of pruring thoogh u I gral min ton hold b m de for such dti t b cul st ne str cture of the u t a ldev l pm ntil lf ts

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t impressed and the state of th th treatm nt f chronic J L K KPA ICK M D p t

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I the fo the se th e ere numerous ureth al tn tha ditribution

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### SURGERY OF THE BONES JOINTS MUSCLES TENDONS

### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

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clill lith re has ben a recurrence. In the author opin mergral to the ment is not apt to be up ful

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### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

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Gray II T The St bilization of the Flail Les  $B \ t \ J \ S$  o  $R \ 39$ 

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ing thre det of the kin m s of exter sive
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elect I but him for this operation fail to to
g up () this cum in the three has been oret m
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welft of the body.

In the operation described use is made of a spicule of bone about 3 in long which i obtained from the crest of the tibin. The conducts are denuded and the surfaces approximated. The picule is introduced into a hole drilled in the epiphyses of the tibia and the formi

Gray has used this method for eight veits and has had no failures from it. He has found however that the bone graft alone is not sufficient to cause ankylosis denudation of the joint surfact is quite essential. The risk of the operation is negligible. The disadvantages of a stiff limb app at to be small in comparison with the tedion expenditure of time required to put on and take off an apply in The operation can be done without damaging the cipthy is a light of the properties. I can be done without damaging the cipthy is a light of the properties.

### FRACTURES AND DISLOCATIONS

Hey Groves E W Damages to Bones and Reputations Lancet 19 9 cent 0

The author reviews 100 consecutive eness of free ture in which primary treatment we carried but with unsatisfactory results. He classifies them into groups according to the bone involved and dis uthe factors responsible for the poor results.

In the case of fracture of the humerus onsultation was most often sought because of non-innon or the complications of an inflecture plating op ration. When the fracture was in the upper portion of the shaft near the tuberosities joint dy function was the most frequent difficulty.

Among the cases of fracture of the clown that were two in which a fracture of the oleranon had been overlooked and stretching of the fibrou union had occurred. The other cases in this group were cases of fracture of the lower end of the humeru in children and voung adults which had resulted in more or less stiffnes of the clown and in three instances had led in addition to 1 chamic contracture.

In most of the cases of fracture of the tadius and untal the complication was displacement of the shaft of the radius toward the ulm so that the hand deviated toward the thumb and supmation was lost. Of this group five were cases of fracture in which some form of operation had been performed unsuccessfully

In all but one case of Colles fracture deformts with loss of function had resulted from incomplete reduction of the displacement

In the fractures of the neck of the femur difficulty resulted from non union painful fibrous union or mechanical cora vara. In the cases of fracture of the shaft of the femur consultation was sought because of sepsis malumion or complications of plating operations.

In the cases of fracture of the tibin and fibuft the difficulties were due to malunion delayed union non union or compound fracture

In the cases of fracture of the ankle the poor result was due to incomplete reduction which caused

valgoid deformity of the foot and a painful and stiff andle

Tiffy legil or a are grouped according to the

lifts legil at a are grouped according to the bones involved. With few exceptions the alleged neighbor a constant in failure to employ the X ray in the diagnosis and treatment.

The million emphasizes the importance of making a critical eventunation of the fricture within a week or ten his sifter its put up in order to obtain the older proof regarding the contact and alignment of the bon. He sugget that in rural districts a mobil X-ris plant b provided.

Imphase is placed upon the unfavorable completitions resulting from platting operations in which the platter rews fail to held and especially upon the langer of platting in a 1 s of compound fractured reversults estimated by the platting of open fractures there are not to not fail to the fracture.

The bit fixtor in act till treatment is simplicity. The bits and placed by the original vill new by grivity and by the pull of the muscles. The first sential in reflection is clinear trection in the act of the bits. Therefore every precitioner bould main the same method of applying such triction.

(3) I first MD.

## Werenskield B A Contribution to the Roentgen Diagnosis of Epiphyseil Separations 1 to

Tru separations of the epiphi is without his placem it can be happined from the detachment of a thin lamella from the display. This limella has in the interstite between the epiphism and the diaphisms and its found in 53 per cent of mixed epiphism als separations.

Trn separations of the epiphysis are by no mean rat they con titute o per cant of cases of epiphysioly is radii. They are most common between the ages of the anti-venty every

## Robert E L The Treatment of Ankle and I eg. Fractures by the Delbet Ambulators Plaster Splint B ( J S & Q S & 4.4

The ambulatory treatment originally described by Delbet has been adopted by the author for the treatment of fractures of the inkle and certain fractures of the leg. The technique including the mixing of the plaster bindages is described in ditail and eleven cases treated in this manner with very satisfactory results are reported.

Weight bearing may be allowed within three or four weeks. The plaster is changed whenever it becomes too loo e. Motion at the knee and ankle is five throughout the treatment. The use of the Delbet plaster shortens the period of treatment and renders unnecessary the tedious and expensive course of physiotherapy required by other method. In leg fractures the transmission of the full

weight through the site of the fracture which is mide possible by the use of the Delbet plaster stimulates the rapid formation of strong callus

ROBERT \ TUNSTON M D

### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

### BLOOD VESSELS

Pemb tn J de J A t on s Ancu m 1 / S t a 5 4 9

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pg 11 tratm to fart nov nous a m I m I m to pe m the alient feat resoft to us of equelart wo enou an u m t bul r f 1 t cp r t t ce in d t l Th pt m vie both l al and sy temi. The

thill path an m can lits port of greate tit mark the teof the list in Their creates the fit humb win the lesson is perpheral tit tan lango ground of the sels the nr themp tue narth fitula and the ic nthempt when arth fitula and the lituban in dthe abnormal ensatt in a the self tipat in the minute of the minute of the self tipat in the minute of the m

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h ng n th heart

The recog to of the l son shall preent no difficate. The symptoms and physical sens t geth with the case in the vigence tent of the blood in the vi initivation in pit.

th hag by nd question

The p gao is depend upon the e of the fistul us pinng I rea a a fitula clossponta o ly but the occurs only: the ealy months in oth as s there a at nd cy towad enlage must fithe opining thince nigmb rassmint of the culation ad death from heart dase

The object of tratment is to oblit rat the arte r 1 lak withot and 1 ing with the d tail or cu lat on. The method f accompl hing this vales with the type and sit of the lesson and the effer of the collat ral circ lat on. The general proof the of the transmitter of co. The all alteriors now an urm and the step 1 the treatment of cognitive transmitter.

In the two a pot d in ! tail the an u sm nwol l the first rand v in In the first c it a t at d n th l ft groin. The fistulous t ct eves l t ther th segments of the at and n Th benefical effects of the option in the lad sist m manifestat in a c less that C mplet cula tudies made before

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In the oth the tract was not d finitely 1 I tel 1 d ligar on ar u d it f led to oblite ate the c mmu c ti n S b equently the tract severed ith a tion of the artery and yein Con

lescence was disturbed by the appearance of a cynetic tumor in the pelvis after expectant treat ment this t mor was r moved. It is as found to ontun ld blood clot. The author attrib tes the form t on of the cyst to nury of the femoral a tery at an artier operat on

Fedell F A te lovenou Aneu ism (S II n ma

Fed h cports a cae of aneursm of the femoral ten n a man twenty s. years of ag which was d to 1 sh apnel o nd Th anatomical co dit on e such that remo al of the sac was im possible without end the sack was impossible without endangering the intally of the said Quadruple ligation was therefore performed. The operatin was done under tropo con ane spin almosthe to Nescular zution and nutrit n of the limb were priectly restably hed and there has be no necture nee of the a cursim such a his 1 veloped in s me of the reported cases in which this ace was not removed.

Cur m d of the pule over both femoral arters d th p v of the heart show that the pansio s of the ancurismal sac were greater than those of the n mal arte; and that in the artery ith aneurn m there as a slight r tardation in the gran ng of the arte al diastole from the tim of ope g of the arte of aliastole from the tim of ope g of the arte semilunar valve. Dastole as mor ab upt and the tran it in from arterial dia tole to systole took place more rap dily in the art rv. v th aneur m that in the normal art ry, but the derotic a e as more m fixed in the normal arter. These of the ences were due to the dease in the classicity of the wall of the a tery than an us m. The m re rap d emptying of the art ry v than aneurs m va due to the passage of a pat of the blood not the ve.

AU REY G M RGAN M D

M cquot P A te nous Aneu sms (S l a é m té o e e ) B il t é S t d h 9 7 l 15

Th autho agrees with Moure that n cases of ascala nju est is often bett ro delay operationatel after the occurrence of c catr at n and the mation of an ancur m prov ded the res no gross harmorrhage a d no f reign b dy n ar the ve of 11 note how v r that Mo r does not mention through an I through perforation of the artery show d a double pe fo ton indicate a concrete accordance to the desired and the second through the second results of the second results are the view of the second results and the second results are second results and the second results are second results.

Mocquot believes that Moure attributes too much importance to the sac in arternovenous ancurisms since it is only because of clinical analogy that an arternovenous ancurism is called an ancurism. From the standpoint of anatomy and pathological phyiology an arternovenous ancurism is very different from an arternovenous ancurism in the sact essential but in an arternovenous ancuri mit communication between the artery and year with the short circuit of the circuitation in the important factor. The sac cannot be used to repair the artery

The article contains the reports of two cases of guishot wound in which becau eof difficulty in load izing the lesion it was nice sart to operate. Avral times for recurrent aneurism. In the first cale the were two arteriorenous communication—one in the femoral and one in the ericumflex visible. Wo quot describes all o an operation in a cale of arteriorenous aneurism due to a stab wound. He concludes that extripation if not the ideal method for arteriorenous aneurism is at least the procedure, which is more frequently indicated and which gives the most constant results. Advanced Wideling of Working Wideling Constant results.

Lecene Arteriovenous Ancurisms (Sur l nismes arterioveneux) Bill line i So at chr 1927 lin 1198

The author discusses the treatment of arturous enous aneur in particularly those which occur clo to the trunk on the extremitie. When an aneurism is situated distally harmostasis i easily effected by the method of Vlatas ie by plering an Esmarch brindage around the limb distal to the lesion and a fourniquet protumal to it. When the aneurism is higher up, this method cannot be applied and some method of temporary ligation as with a red rubber tube (Nclaton) is recommended. The Vatas method is non traumatizing and efficacious.

Lecene reports two cases which were treated during the war. The le ions were almo t identical both affecting the femoral artery in Scarpa's tr angle First the external iliac arters was expo ed and hamostasis ecured by means of a small rubber sound. The aneurism was then expo ed and the vein opened up so that the communication could be explored with the view of lateral suture of the artery The hæmorrhage was so great however that this course was abandoned and a quadruple ligation of the vein and artery close to the fistulou opening was performed instead \umerou enlarged veins draining into the femoral artery al o required ligation The second case was analogous to the fir t except that it had been operated upon previously and the ligation had been performed too far away from the site of the aneurism to effect a cure

From his experience the author concludes that in voung persons there is no danger of circulators disturbance in the extremities following quadruple ligation. Attempts to save the main arters are time con uning and carry with them grave danger of secondary hamorrhage. If a direct and access libe communication is found literal suture of the arterial

wall may be justified. Ligation should be made as close to the ancurismal communication as possible It is not alway necessary to expose the vessels to the periphery in some cases the lesion may be closed by whipping it over with sutures.

MICHAEL L MASON M D

Yater W. M. Aequired Arteriovenous Fistula

Nate report four crics of acquired afteriovenous in tilla. In three case a determination of the oxygen content of blood taken from a vein in the region of th fit till a reverled the presence of afterful blood in this venus channel as would be expected. This text is using sterius a pathogonomous criterion in all case in which there is doubt as to the presence of an afterior nous anastomosis.

Leriche R Traumatic Arteriovenous Aneurisms of the Limbs (vu les a & v me a terio incux traumatiqu 1 membr B ll t i So t d i n g lim 39

Lettche noted the exact situation of the lesion in only live of hi nine cales of traumitic attenovenous aneurism. He found that the arteriovenous fitula ocurred in tantaneou ly at the time of the injurial some in tance there were dilatations of the vin. In the one case of art rial dilatation the elast time the high disappeared in the greater part of the arterial pocket and the musculir fibers were

parated When the sac is formed's condarily at the expense of an encysted hæmatoma it does not take long for the formation of an art rioxenous ancurism Lerich, has seen complete endothelization after fourteen days. His of the opinion that the connective tissue prolification which welds the artery and yen together is due to transformations such as occur in all traumatized connective it sue. Hoperation is not done within the first few anys it

should be diferred for two or three months

In his nine cases Leriche obtained excellent
re ults from resection of the fistula with quadruple
ligature. He discusses the immediate secondary
and remote phenomena following experimental
arteriorenous fistula and reports a case of arterio
venous aneutism of the femoral ve sels with con
siderable cardiac reflux cardiac resonance dilatation
of the heart and a murmur. The aneutism was
cured and there was very slow diminution in volume
of the heart but the murmur still persi ted after
say months.

Auvray The Treatment of Arteriovenous Aneurisms

(A propo du traitement de anévn me artério o ve neux)

Bil t t Soc nat de chir 192
hi 1 56

The author has treated nine ca e of arteriorenous aneurism. In one, the procedure consisted in suppression of the communication and lateral suture of the artery. The really was very satisfactor. In the eight other—cases of war wounds—the complexity

Moszkowicz combines it with vasoligation injection and ligation are carried out at the highest point of the dilated v in usually on the upper third of the thigh However lightion as high as the level of the opening of the vena saphena into the femor ili is avoided whenever possible in order to keep the

patient ambulant

After a careful study of the venous con lition ha been mad with the patient standing a spot is chosen for the injection and marked by scratching with a fine needle Disinfection is carried out with benzine and tineture of iodine and a locil and thetic is injected about the area | I ollowing exp.) sure of the vein a double ligature is place I aroun l the vessel but only the upper strand is tied. Ih n o 30 or 40 c cm of the glucose solution is injected the wound is closed with Michel skin clamp and t small dressing is applied. After the injection the entire limb is encised in a rubber bandage

If the vena suphenu mugna forks below the it of the ligature on the thigh 20 e cm is injuited int) each branch Moszkowicz add V drop (not more)

of suprarenin to the solution

At the moment of injection many patients experience eramps of the call muscles but these tend to subside after a few minutes. Some patients fe l a drawing in the leg for a few days and prefer to remain in bed while others walk about undisturbe l

Among 150 eases receiving this treatment there were 3 cases of reaction central to the point of ligation but without any tendency of the proces to progress farther The reaction caused by the injection regresses as a rule in two or three weeks After four weeks the patient 1 able to resume his usu'il work No instance of embolism has been noted. In one case a periphlebitic abscess developed beneath the point of ligation

Moszkowicz performs this operation only for markedly developed varices in persons doing hard

physical labor

The presence of an ulcer is not a contra indica tion but an attempt should be made to have the ulcerated area in a clean fresh state before the operation is performed. The ulcer tends to heal rapidly following the injection Recent active thrombosis or phlebitis is a contra indication dia

betes demands caution

Moszkowicz is unable to report the ultimate results in his cases as all of them were treated recently The method is unsuitable if the dilated veins form a network encompassing the leg I or such cases Moszkowicz recommends the Rindfleisch. Frienkel spiral incision with ligation or evulsion of the involved veins. The wound is closed with Vichel skin clamps in order to promote the develop ment of cicatricial tissue STETTINE (/)

Fulminant Postoperative I'm Cantelmo O bolism (Le embol e post-op rative filminanti)
R fo na i d 1927 xl ii 1120

The author briefly reports five cases of fulminant po toperative embolism. The first was that of a woman fifth five years of age who had her right bre t amoutated under chloroform and thesia and on the morning of the sixth day was found dead in bed The second was that of a woman of forty six vers who was operated upon for a cyst of the ovary and fell lead on the infreenth day when she started to get up for the first time. The third case was that of a man fifty nine years of age who was operated upon for st nosi of the intestine due to a tumor. On the tath day the patient fell dead while sitting up in bed ating a meil. In the fourth ease that of a woman f venty years who was operated upon for uppurative cheleevistiti from probable cancer of the heal of the panereus death occurred on the f urth day during in ittack of vincope

I in four of these five cases there was no in flimmation it is vident that embolism may be repti is well a prin The primary factor bring ing it ab ut i the fir trie of blood or source from fort after the jostop ratio re t. There are three torm - th vincopal the firm characterized by acut uffocation and the form characterized by a physical in the vincopal form a large emboli main the right heart cau es r flex paralysis in the two ther forms the emboli m occludes a large branch of the julmonies artery. The embolism i always price led by an evening run the temperatureth ign of Mi ha lis or a pulse rate up to 110 120 vith a normal or slightly subnormal temperature the sign of Mahl r In the author's opinion the ign of Michaeli in licates hictorial embolism in l Mahler ign iseptie embolism

In the cases of patients with a weak heart or anæmia and the cases of all per ons over forty years of age operation should be preceded by the administration of a heart tonic and alkalinization of the blood and should be done under local an esthesia the patient should be kept at absolute rest for as short a time as possible and slight massage of the lower limbs and respiratory gymnastics should be begun on the first day after the operation. The lower end of the bed should be lifted about 15 cm At the first sign of fever or tachycardia, the gatient shoulf be put at rest igain and should be kept at rest until about a week after the cossation of the fever AUTLING MOR AS MID or tachyeardia

key E Embolectomy as a Method of Treating Embolic Functional Disturbances of the Fx tremities (Ueb r i mi olektomie als Behandlu methode be embolischen Funkti n to run en ler Friremitaeten) Z ir ibi f Cl i 1927 l 219

Key believes that the Trendelenburg extraction of pulmonary emboli is not of great practical im portance as there are few cases in which it can save life In the extremities however embolectoms has a better prognosis Key has collected a total of nmety five cases from the Swedish literature an l states that the number is increasing every year

I'mboli usually occur at points of branching of in ifters such as the bifurcation of the aorta and cmm nia fm lanlp ple late tesan like pt the filler str. hee the the cip lar tanh g fill mb l the xt m te m y lar tanh g fill mb l the xt m te m y lar tanh g filmb l the xt m te m y lar tanh g filmb l the xt m te m y lar tanh g filler lar tanh g f

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out call though the tot my would if it le ot it ny b m dwill the d f forc p

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t nju th nt ma R ma ning pa t cles may be

removed by gentle massage. It is absolutely nec s. sary that all of the embolus be remo ed. In cases of ve y long thrombi Babcock sound may be em ploy d the th ombus may be milked out or washed out hy the blood urr nt The applicatio of a clamp to the pe pheral po tion of the embolized art y a permissible als after the complete removal of the p mary and s condary thr mb Just before the sutu g f the essel the clamp on the central port n of the e sel shoul I be mom tarily opened to determs heth the blood passes freely Cir cul to may be allo ed after the essel has been sutu ed and an ther e mn ton for embolic m terilh sp. dn atie If another embolus is di c d a second arteriotomy must b done For th m al of mboli in the large ve sel of th tun uha th aorta o the common il c

rt th th mb extending into the se el f th th h r r graf sounding and millin are mm n l d Th e tral mbol ha e an u fa o bl pr g be u of the vere stran they plte p th heart (Wiedhopf)

Ky cll heart 1 1th a state tical review fh a Log (Z)

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It auth r p t t o cases in which emb l r u full r m d from the pullmonar a tri 0 fth jritints r mainel ured. The other dith it in the lectors but ded from as c l pullm arv mb lu t intv fi day lter. The uther p t et he qui i essentially sml t that fth da teal Tren lie b 1 gop rat. I lio 1 ft t u are n dlo e so that the n n in can be mile in the olin p Th ond and the dribs we to hon larl junction. Opening of the plur at triviol in order to spare the put in first his transfer of the strain the heart production of the strain the heart p od of blood defice to Dung the net lin high the modal a b fig. loss of the little heart p of the plur attent to the heart p od of blood defice to Dung the net lin high the modal a b fig. loss of the little heart p of the plur attent the heart p od of blood defice to Dung the net lin high the modal a b fig. loss of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the constitution of the little heart p od of blood the little

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The author helieves that carbon dioxide inhalations are of great value in quickly stimulating respiration e pecially in cases of sever respiratory failure

[EIIV (7)]

Pearse II E The Immediate Effect of Arterial Ligation an Experimental Study | J W Sc 19 8 class 49

In a study of the results of ligation of large arteries upon the arternal and venous pressure and the size of the heart. Pear a found that the arternal pressure was increased proximal and dicreased distal to the ligature and that sudden outlission of the zorta produced cardial dilatation and pulmonary eddema. He suggests that in arternal disease of the extremities the clevated provimal pressure must be a factor in the dilation of the colfateral channet and the maintenance of viability of the purpheral part.

RIGHARD I HERS. M.D.

Stern W. G. The Saline Wheal Test as a Measure of the Blood Supply in Arterial Disturbances of the Extremities. Ohio State M. J., 9.8.8.8.1016

Up to the present time hut few good and practi al agents to measure the circulation in the extremitishave been devised. The calorimeter is the mot accurate of these hut is su ceptible to external in fluence and is not suitable for hospital or other us. The hypodermic pyrometer of Brooks is useful but often inaccurate and requires puncture of the skin Thicosollometer of I achon cems to be rehable but I often out of order.

Following the work of McClure and Allrich the author has devi ed the following method

By means of a tuherculin syringe and a very fine needle 02 c cm of an 08, per cent aime sofution is injected intracutaneously. The eye of the needle should be visible through the outer faver of the kin when the injection is made. The first injection is made at the base of the great toe and similar injec tion are made at 4 in intervals up to the kg and thigh The sense of touch is used to determine the disappearance time as the v..somotor changes produced by the injection often render vi ual judg ment unsatisfactory Normally sixty minutes or more is required for the complete disappearance of the wheal produced hy the injected fluid though at the ha e of the great toe reading as low as thirty minutes have been considered normal (one such reading was made in the case of a patient without clinical evidence of vascular disease) In ca es of circulatory disturbance the disappearance time of the wheal is reduced to one thir i one fourth or even one twentieth of the normal

From a series of oo ca es in which the described procedure was u ed the following conclusion are drawn

In the absence of cedema the intracutaneous salt olution test is a simple rapid and accurate method of determining circulatory deficiencies in the extremities

Sixts minutes or more is the normal dis appearance time of the salt solution

In all instances in which clinical circulatory. In the new exists the disappearance time is diminished in the area just above the site of gangren (existing or threatened) it is frequently as short as the munutes.

J ns J Majonsy M D

### BLOOD TRANSFUSION

Bourde V Zucarelli J and Duval P Chronic Recurrent Hæmorrhagie Purpura Splene tomy Recovery (Juryura 1 m rrhagique re I nt br juc plenectomic guerson) Bull et 5 ut d l 1 1 1 1066

I he patient whose ca c is reported was a woman it vin vit vitar of age. Two of her sisters had dil from hamorthase at the ages of nincteen and time two years. The patient's first hamorthage ceurral following a slight traumatism sustained vitin his was four years oil. Since then she had had numerou spentaneous and traumatic hemorthages into the skin and fir mithe mucous surfaces. Ton sillect my an i appendections, had heen performed vithout un flue bleeding, but following the extraction of a tooth the gum had little for three weeks ever harmatem is frought the patient to the he pital in coma.

Examination of the ble 1 rescaled a moderate legic of see n lars, anamia a normal platelet cunt and slight prolongation of the lifecting and lotting times. The Wa sermann test was positive Sycone therapy, and various intravenous and hypodermic injection produced exacerbations of the life ling. Pain developed in the left hypochondrium and the sylicin which formerly could not the felt became palpable. Splenectomy was followed by apparently complete recovery. The httligical findings were thought to indicate Wells hissase.

### LYMPH VESSELS AND GLANDS

Dunham E C and Smythe A M Tuberculosis of the Cervical Lymph Nodes in Infancy The Value of the Roentgen Ray in Its Diagnosis i J D Child 19 7 xxxx of

When cervical adenopathy vias objected in chillien it vas found that roentgen ray examination was most helpful in determining whether the infection of the nodes vas tuberculou

\ rav plates showed calcified node in two cases of infants aged five and seven month a period of life in which tuberculosis of these nodes is regarded as rare ROBERT M GRIER M D

## SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

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Last fun tin test are less commonly applied though equally imp tent List function may lete mine I for the bil rub nemnto acte us not Labbe aim tax glycama (st the amm of its unit (Hass lb ch) Kosenthalls test test abnorph in lighthalein and chronocholosyon In the improcedulation of chronocholosyon at timpo tanate. The st energy mease of the list of the grant tender to the stenergy mease of the list of the grant in the form figure.

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h h ) J d / 9 7 394

Oprat n holl n t b pri m t h n till s abo no mal fo 45 gm p of m t s n tog n t n till l n po f ct of th he n t kidne h h ill prob bly m a the de elopm nt of h pat e l ompliatins after

The author ditum neith blod ura 3 patents who ret nirgo sug alope att. The ferrun tas e mai by the Moom the din 34 c s s the munt a equito abo 0.45 gm pt. 1000 c at Amog til 13 casthere re41 aths from ano mpleator but no eductor als suffer nev in ome cas

the blood uren ranged from 0 70 to 0 80 gm per

There are cases (the authors report ) in which when the blood ureu is normal before operation phenomena of evere renal insufficiency upper rife roperation. Therefore the prognostic value of the pre-operative blood urea values seems to have he exaggrated. Determinations of the blood ure should be supplemented by Ambard's construit the phenoisulphonephthalein test. The buth refer the latter.

An increase in the blood uren is a constant the nomenon after operations. It reaches its maximum on the third or fourth day and descends by five in eight or ten days usually without clinical symptom The urea retention before and after operation in 66 cases is shown by the authors by means of graph Some surgeons attribute postoperative hyp r azotæmia to the anæsthetic but the authors do not accept this theory since in 8 cases in which and the 11 was not followed by operation there was no nitrogen retention and in some of the c cases in which of ra tion was performed later the blood urea va in creased after the operation. All method f in ducing anæsthesia cause a transitory increase in the blood urea after operation even local an asthesia Traumatized patients who have not b n anæsthetized also show nitrogen retention

Urea secretory azotemia is the expression of a disturbance of the excretion of urea in the kidn is due to an alteration in the renal parenchisms. The urea secretory function remaining the same before and after operation it cannot be responsible for

postoperative nitrogen retention

The oliguna occurring after every operation firsbeen considered a cause of increased blood urca. The observations reported in this article seem to show that the blood urca curve rises the volume of ourne decreases and the concentration of urmary urea increases. Oliguna does not seem to be the

The factor essential for nitrogen retention is resorption of the elements of the cells and tissues shilled by the trauma of operation. This accounts for the nitrogen retention following trauma and curretherapy. An operative procedure such as the transfusion of eitrated blood which is not accompanied by disintegration of the tissues or by resorption is not followed by an increase in the blood area. Postoperative leucocytosis may contribute to the causation of introgen retention.

INVIT LICE

Walter A B Denuded Surfaces Treated by Tannic

Acad Canad an M 155 J 192 XVI 1517

Walter recommends the use of an aqueous sofution
of tanne acad not only for burns but also for surfaces
denuled by other traumata He reports ty ocuse in
which it gave good results The method is of value
from the standpoint of simplicity comilar freedom
from painful dressings quick healing and fightness
of the sear

Faure J I The Mikulicz Drun (Le Mikulicz)
I I I I I 1) 7 xxx 4(7)

I r 1 ln, tim laure his been advocating the in lith Mikuliz livin in peritonial infections. In use, tin perilly as it applies to intestinal urg rv v 1 litt rlv possed for a time but a large until r 1 hi pt nits have now become convict lith his fil.

II ill the limit by it popular name. Mikuliez Irin I ut tit that it was first described by Di man I fr

In mixing, a Billet report of forty cases of mixing in treated by appendectomy with jrim ry 1 ur fith ublimen without a single 1 th h tit that the condition must have been in the 1gn inng, trace with little or no infection of the jrit n inn. It h ight e with those surgeons who bill that in the pertramation is sufficient to yr m infect n. He has found that a dry Mikhalz a linn turn h. I there appliary draining that it that it is real ith yealing the property of the property

Jack m A S (I reme Postoperative Tetany

Jak nrain the growth of our knowledge of the tin tir in I function I the parathroid gland from W. Brr. In t. il. ryttons in Billroth's clinic in 1831 the vrk f. H. Wann I in I Marriett in 1938 which hem n trite I that can ulsions develop when the calcium in the bloot becomes less than 7 mgm per 100 c.m. f. rum.

The mechane of 13 typeritive tetans has been merea elbs the r heal type of this roddectom; that i net are to obtain a cure and prevent the recurrence of gitter. The cause of the tetans is operative trauma to the parathroud gland or interference with the bloof apply of these gland by ligation reliens of year to use the processing of these glands.

The symptom may be acute or may not develop until several months after the operation. In some case, they may be atypical. The classical signs of the condition are a fector of in the calcium content of the blood and the signs described by Trousseau Choostek, in I I rd. letany has no effect on the basaf metabolism.

The two igents that have proved most effective in the treatment are cideum and parathermone betther however will crue the chrome type of the condition. Jackson gives calcium lactate orally or intravenously or Collips parathermone intravenous la. The tran pfunction of parathermone distances.

not proved generally effective because of the difficulty of recognizing the glant at operation. One of Jackson's case was markedly benefited by ultraviolet light but the time that has elapsed since the ultimate result. I arathormone was used with a beneficial but not curritive effect in three cases. The treatment should include a diet high in calcium measures to prevent constipation, and exposure to sunlight.

#### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

We nbe 2 M Anti Ganerene Serum and Its Therapeutic Use G s G ngrene Appendic ts Gang ene of the Lung (Da t liag d Tilg Sum de 1 d Gggae Appndt Lg ь e) 5 pf 8 9 7 70 45

In r to the ar th Fankel Welch hacill s (bac llu pe tri g ns) and I asteur's septic vibro ere a cepted a th cause of gas gang en hut war p riene de non trated that other anaerob c organ ms al o play a part in this infiction. The ba il s cedemiti s which is very toric was found in on the if the cases In addit in the highly toxi and proteolytic builly hi tolytic a and

th bacillus sporogen s e e found
Infect on with the bacillu perf ng ns al ne
p odu the class cal p cture of grs emphysema in ts diff rent fo ms (with b on e di coloration or bite gang n ) but simila pictures may be pr du dals by mi ed infecti n Th assumption that gas of putr faction must all and develop a erron os In 5 prent of the c ses thes signs

of jutrefaction v d to the pesence of the ba cillus spo o ne

All inf tou o d compleat n shoull b called traum to nd th term gas ga gr ne rs v d for ca of t aum th emphy ematous

g ng ne The nature of the causat e organ m cannot det mined f m the clinic I peture alo e Repeated ba t ri logic l amin tions of the voun l

se retonaen es av

Serum th any must be dr ted again t fi e o gan sms the bacillus pe fringens the ba llus s pricus the b illus ordematiens the bacillus hi tolyticu and the ba llus sporog nes It has b en p sable to develop a mono lent ant toxi and antiba terial s rum for us again t all five of R cently ant to 1 ha e h en anac obe mploy d instead of to s 1 m xture of these sera h s been d m nst ated to be most eff ct ve As a ule a quad al nt erum s suff ient vept in c s of put ef tion in hi h antispor g n s s rum sho ld be added A a rule a gle ntra enous njectio of the cum gives the les r l e ult It is f eo rsc understood that the ni v should be trate la cord g to surgi al prn ipl s The cult aeccllent

Of s xtx c ses of gas g ngr e occurring during the va the ser m failed in only fou The ntra muscular injection of the serum is r c mm nd d as

p ophylact c tr atm nt

Antigangrene erum can be used to get advantag alo in c il pactice. In ce tai c se of append cts pue pe al seps and lung gang ene it may see lif as in these nditions the og m m caus ng gas ga gr n may be pre nt It shuld h used all o in c ses of gang one of unkno n et ology (ang na d'abetes t )

The good results cannot al ays be ascrib d to a nurely specific action of the serum \ paraspecifi component must be assum d. Apparently the us of the se um cau es separat on of the polybacterial hich Weinberg called Lata is

KREUTER (Z)

#### ANÆSTHESIA

Gwathmey J T and Hoope C W Pelimi ry Med cat on a Gene I Anæsthes a with Spe civi Reference to ti e Margin I Safety nd Po tope ati e Lesions of the Lung 0.8 46

uthors give p climinary med cation before admi st ring an anysthetic because it pre e ts p sche hock a reases the ma gin of safety mod or abol sh s untoward symptoms during the in luct on and maintenance of the anasthes a and prevents po abl post perat ve lesions in the lungs such p lim nary med cat on is ind cat d wh th r the anasthesia s to be local spinal r g onal or gen rat Mag essum sulphate is a s it

ahl agent t pr longs the action of morph n and f ther; selt depen the ana thesia

In 200 con ecuti e cases i which magnesi m sul omb n d with morphine was given before oprton thav age length of time b fore a seda tie as nedd s sixten hours whereas in a pa all I ser of ca e in which morphine was gi lon a d t e va usu lly needed after four hor In the fir t s ries 400 c cm of a st rile 4 per cent chemically pur soluti n of magne um sulphate s lut on e gv n by hy pod rmoch 1 onea done I li b ur b fore the pe ation Later e pe e ce

ec of a sper c nt lution n three di ided doses e put elent to the 6 gm used previou ly
Lyp r nents on a mal ha e sho n that when D limi v mediat on is giv and thes a occu s s on randle seth s necessary and that the ma en f saf ty bet en complete anasthes a and r

has p v d that n intramu cular injecti n of 6

spirato y failu e is lengthen d

per cent

In a large n mb r of n c opsies pe formed o an mal t d term ne why p el munary med cat o causes inc ea d tol r nee t general and thet es t found that hen no prel m nary med cat on was

u el l ng l 10 s occur ed regardle s of the anæs thetic mileved wh reas hen or him t on vas give the lings ere relati elv no mal

The pelmi a y medication suggest dir chical pu po es s the nje t on of 8 gr of m rph phate lution dss lved in 2 ccm of magn sium sulphate solut n repeated once or twic at int r I of t enty o thirty minutes If an i hosync asy I pes nt it Ild clopb fore the t me fo the third dose If d ep anaesth s a is de ired the author P t ents are gi e a small dos f ether pa aldehyde and of e oil a a retent nen ma If n tro sox de and or gen ar employed the o yg n should be in r s d I om the usual rop cent to from 30 t 50 MRR AS CLH MD

Hughes C The Present Position of Spinal Anal gesia Proc Roy Soc Wed Lond 1927 vm 189

The author briefly reviews the history of the in duction of an esthesia by the intradural injection of drugs Following early discouraging accidents with cocaine the method fell into disrepute and it was only after the discovery of novocume stovume alypin and tropococaine early in this century that

interest in the procedure was revived

When properly induced spinal anaesthe ia is suitable for the treatment of a wide variety of conditions and its mortality is low A preliminary narcotic should always be given. The chief contra indication to the method is low blood pressure but the danger of a fall in normal blood pressure i not great if the proper precautions are taken. In a series of 500 cases the average fall was 30 per cent The fall is apt to he greater in cases of high pressure than in those of normal pressure A fall in the bloo l pressure is usually not of grave import unless it i accompanied by a rise in the pulse rate. Collag e can be guarded against by the use of strachnine or

The author uses a 5 per cent solution of stov line and a 10 per cent solution of sodium benzoate an i caffeine citrate in distilled water This is u uilly guen in a dose of from 4 to 6 c cm and may b used with or without light inhalation analys in Throughout the period of analgesia and for one or two hours afterward the patient is kept in a moderate Trendelenburg position Immediate po t operative complications are few and slight

FRANK B BERRY M D

# Hanrahan E. M. Jr. Brachiel Hexus Nerve Block J. 1 : M. 1ss. 1928 vc. 5 9

Although hrachial plexus nerve block has not found much favor in America the author has em ployed it in forty three cases The results were per fect in thirty six cases satisfactory in four and un atisfactory in three Two of the cases in which the results were unsatisfactory were those of young children Subcutaneous infiltration was necessary to complete the anæsthesia in three cases author prefers the supraclavicular approach of Kul enlampf He employs from 10 to occm of per cent procaine hydrochloride It is important to obtain paræsthesia on insertion of the needle beneath the fascia before the solution is injected cases in which this was done the anæsthesia was entirely satisfactory If paræsthesia cannot be ob tained a wide injection must be made and half an

hour allowed to elapse before the operation

For cutting operations Hanrahan advises the subcutaneous bracelet injection of 05 per cent solution of procame hydrochloride to render the skin entirely an esthetic. In cases requiring extensive manipulation morphine and atropine may be given pri r to the operation

In the author's cases brachial plexus nerve block wa u cl for the treatment of palmar abscess am putation of the thumb open and closed reduction ot fractures of bone of the forearm amoutation of th should r and the reduction of dislocations No untovar l re ults attributable to the anæsthesia were ob reed in any instance

WILLIAM J PICKETT M D

#### Beckman II The Alleged Synergism of Mag nesium Sulphite and Morphine 1m J Obst 925 K 7

B ckman tates that in 113 experiments per formed on tifty one animals he was unable to find any evidence of unergism of magnesium sulphate and morphine. He believes that the claims of uch a synergistic action are based on failure to li tingui h clearly between addition and true PUDIRICA V GRACE M D syn rgi m

#### SURGICAL INSTRUMENTS AND APPARATUS

### I ost M II Sterilization of Sharp Instruments J Opith 118 x 3

lost terrlizes his cataract knives and other sharp in truments in a solution of the following composi tion alcohol 95 per cent and liquor cresolis com positus 2 per cent 2 oz commercial chloroform 2 and liquid albolenc 2 dr

No rust or tarnish appears even when the hlades are immersed for many days. The germicidal properties of the solution were investigated by dipping threads into suspensions of various pyogenic organi ms placing the threads in the solution for varying period and then culturing the threads In no instance in which exposure to the solution had lasted for one minute or more did any growth appear

The blades are wrapped in cotton and immersed in the solution for half an hour or more. The cotton is then removed and the blades are allowed to dry The slight remaining film of albolene is wiped off Following an operation the blades are immersed again for one minute and allowed to dry Oxidation is prevented by the film of albolene Staining has never be a crused by this solution and there is no loss of sharpness if the blade are handled carefully 1 AWRENCE JACQUES M D

## MISCELLANEOUS

#### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

M lch H Indelible Ink Pen il Injures
S g 9 8 1 x 95

Milch rep rts a ase of njurv due to an indebible p nel and r via s the literature on such mju tes. The solution of the aniline dyes—chefly methyl volet and methyl ble -in the tissue juces produc s in asepti necrosis of the tissue hed develop slowly var lis apt to be extra te "As attempt to remove the offending body may break tinto mall r fagm its nijue the protective wall about it and open the tissue paces the rail to mall r fagm its nijue the protective wall about it and open the tissue paces the rail to mall referent its wd c sono of the wound and the contain a die og n body at the earl est p ss ble moment

Weint ob M nd M sseloff C R Gas Gangrene in G vil Practice 1 J M S 9 7 1 8

This r p rt is ba ed on 85 cases of gas Langrone treated at B llevue Ho p tal Nev York

The condition as first decibed in 1853 but duting, the next that ye ears little swritt on the subject. The Wold Was within thousands of case of infect on b gas bacilly gase a good opportunity from intense tudy of the disase. During the early years of the arform to to 2 percet of all ounds in the Bith Army became infected with the gaballus and the mort lty ranged from 9 to 80 procest.

The predomi t ng org n ms f und n the 1 fection the b llu elchu the v brion ept que

and the b cllus ademations

In 85 cases IV. deer seen in the per od of fit in vears from 10 to 96 and IP pesent dI cae of the ondition to e cy 7,310 big tall admissions. In the per od from 9,010 big tall admissions In the per od from 9,010 big tall admissions. In the being the first the period from 9,010 big tall admissions. In the being the first the

of gasging one butt date none has been accepted The infiction of us most frequintly a damaged muscle it being it all a lisease of deutalized to us Singliam ucles may be affected in the return ty with ut any invasion of adopoing tissues in many of the cres reviewed the condition deal opilater a compound fracture and in \$5 per cent of the cases the facture in 0 ed the tib a

In addition to the local lesions in the muscle ti sue the cardiovascular sy tem is often invaded. Fre quently the liver is enlarged and contains gas hubbles. Occasionally, the adrenals show in dullary congestin and hamo rhages.

In civil practice the condition usually develops in a la e ated u und contaminated with dirt or an

appa ently clean gunshot ound

Pan is the most prominent symptom but is u ually of short duration. As a rule it is follo ed by a sense of numbres in the part affected. Even in advanced stages of fatal cases the mentality is little affected there being a general ense of well heing

An unexplai abl swelling in cases of compout of fetue should be considered as spice outsign. The swifting is ten e and different f in the usal presuppriate we selling. As a relut of the codema the skin becomes at first unusually pale then of a dirty came collowed and then put fit mag mas of the purple a case a continued on the tendent they first many continued to the continued of the continued

Early in the coule of thich and to not the puller a rapid and the temper attrilier relatively low. In the ric of cales I wised the verage temperature at the time of the patient and is not to the hospital vision 6 degrees I and the average I less was III. Most assess on an I yeleuccyto is I that proport to nate in resimination of the proportion of the p

nfrequently shot the bacill's well hu

I obably the best outline of t catment a adable that wh b w s given out by the United States M d cal Corps pror to the battle of Chatea The ry in 918 According to the utle e operation h uld be don a early as po thle and anæsthe ta hould be in I ced p of rably with nitrous or de oxygen Longitudinal neisi n should b made half aga n as long as 1 apparently nece ary in the skin and fascia. The use of tourniqu is and the cutting of normal muscle 1 to be a old d As much sk sh uld be left as I ss h! The wound shoul! be opened thoroughly and f cely All torn cru hed ard di color d muscle should be eve se l only that wh h is fi m and normal in c lo nd bleed f eely being left All loo e bone and f e g hodic should b r m ved Afte the arre t of hæmo rhage the ound bould be left open and filled 1th mo t gau e Tight p cking is to be avoided Carrel tubes may be mployed if they can be p operly care I for Henty f dressings should be used and the p it immobili ed with splint

In the cases reviewed the mortality was 83 per cent in the e not operated upon 64 per cent in those treated by debridement 40 per cent in those treated by amputation and 17 per cent in those treated by

d bridement followed by amputation

Serotherapy has been found of great value in gas gan\_rene It seems to give the best results when it i used as a prophylactic agent. A mixed or polyva lent serum is most effective. The method of choice for its use is intravenous injection combined with intramuscular injections proximal to the wound Scrotherapy cannot supplant surgery In civil practice it seems to be entirely secondary to surgery but it use is probably advisable after debridement

HAROLD M CAMP M D

Wilmoth C L Subjecte Ingularl Lympho granulomatosis A Report of Twenty Seven Cases South W J 1928 vvi 108

Inguinal lymphogranulomatosis is a disease of unknown etiology affecting young adults. In the United States it is seen most frequently in persons who have recently returned from the West Indies or Central or South America. There is some evidence to support the view that it is contracted by sexual intercourse. The superficial subinguinal glands are involved. No evidence of a primary lesion in the tissues drained by these glands has been observed. The pathology of the condition is essentially that of a low grade pyogenic infection ocro is rather than suppuration occurs as the dis ease progresses and there is a perindenitis which results in fusion of the individual gland

The incubation period is probably four or five weeks The di ease develops so slowly that medical and is usually not sought until about three weeks after the enlarged glands are first noticed. With the development of a periadenitis the overlying skin becomes reddened and adherent. As a rule the condition is unilateral Occasionally spontaneous recovery occurs The treatment of choice is exci ion of the involved glands LAWRENCY JACQUES M D

#### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Castellanl A Notes on Blastomycosis Its Eti ology and Clinical Varieties I roc Roy Soc W d Lond 1928 TN 447

Castellani gives a classification of the clinical varieties of blastomy cosis and describes the cultural characteristics of the yeast like or budding fungi included in this classification. Most of the varieties are found in the tropics but blastomy cosis verrueosa affecting the skin is found in all parts of the world MANUEL I LICHTENSTEIN M D

Christopherson J B On the Treatment of the Actinomycosis Type of Mycetoma Proc Roy So Wed Lond 1928 vii 471

This article reports a case of actinomy cosis of the parotid gland which was under treatment for more than two years Radium and roentgen irradiation was tried but fulled to cause improvement author believes that large doses of potassium iodide over long periods of time are necessary to obtain a cure He bas given 240 gr duly for over five months without causing any ill effect

MANUFLE I ICHTENSTEIN M D

Barnett L E Colossal Hydatid Cysts Med J lustralia 1927 11 878

Barnett reports an enormous hydatid cyst of the abdomen in a man thirty nine years of age who had spent most of his life among sheep and do.s An interesting point in the history was that when the patient was six years of age he fell heavily striking his abdomen against a projecting stone. During the thirty three years that had elapsed since the accident there had been a gradual swelling of the abdomen Barnett believes that at the time of the injury an echinococcus cost of the liver was rup tured intraperitoneally

Exploratory puncture of the abdomen was nega tive because of the thickness of the peritoneal exudate. At operation the entire abdomen was found filled with hydrtid cysts of various sizes Eleven gallons of fluid were r moved. The patient made a complete recovery

In Barmett's opinion this evet formation was precoded by a choleperitoneum at the time of rupture of the cost of the liver and as a result of the libera tion of bile a false membrine was formed in the JOHN H GARLOCK M D peritoneal cavity

#### DUCTLESS GLANDS

Frank R T Endocrine Therapy 1m J Obst & Gy 6 1928 V 40

The author traces the history of endocrinology from its origin in Parry's clinical description of exophthalmic gotter made in 1825 down to the pres ent day Our knowledge of endocrine diseases has progressed steadily The function of the glands of internal secretion with the exception of the thy mus and pineal and a large number of syndromes due to disturbance of their function can now be outlined with considerable degree of assurance

The noticeable advance made in the lit decade was due to the fact that the pharmacologist the physiologist and the chemist supplanted the empir ical investigator Lach advance was based upon the discovery or elaboration of some specific test for a given endocrine product. I aboratory workers have shown that potent endocrine substances in minute concentration produce easily recognizable effects and in overdose may cause severe symptoms of poisoning Adrenalin pituitrin thyroxin insulin the parathyroid hormone and the female sex hor mone possess this quality

In women the three most striking and frequent syndromes encountered have to do with the pituitary gland the thyroid and the ovaries The disturb ances are of the hyperfunctional and hypofunctional types In obese patients blood studies may show a d pres on of the ovarian function In rare instances there is hypofunct on of the adrenal pancreas and parathyroid but by perfunction of these glands with the exception of the adrenal in childhood is not recognized.

Hyperfunct onal conditions call for toning do n of the hyperactivity of the affected gland. This may be donn by complete ablation part all resection and Nray therapy. At times and rect methods such as the use of other in adolescent gotte are and cated.

Hypofu ction 1 anditions require stimulation of the glands. In the ca of the ovary, small doses of the Vrav increase function by Allings off attention field less. In cases of pituitive and the yould underect it, substitution the app in site gift on the first successful use of third, dubts new assembled in 189 by Mur av ho gave fresh and glyc tinex ta tof thypologiant of a oman suffering from my ordema and thereby kept the patient in excel 1 in the alth for thirty four yea.

The author few attempt to stimulate ova an fun tion by means of the female se hormone a e not a v t suffic ntly conclusi e to warr nt a definite

or in on

It is un i e to g ve so call d stimulat ng doses of
\[
\] a i irradiati n to the 0 aries as the marg n of
fety too small Except in the presence of thy rod
r cti it; the trial of small amounts of thyroid
t act i just fied t det mine the patients re
sponse to th stimulat on of body metabolism

The vell known and spe inc eff cts of in ulin in dabet and of parath rould borm ne in teany are n t included in this discussion. Pittut in do s not replice the 1 so of the anterior lobe of the pittut 1 uses in obstet ics intestinal pares and dishets in indius ar ell known. Attempts to produce an ant or lob extract has ebeen o ly part ally sic.

ful Such et acts a cknown toe aggerate the goth impule of young animals and to produce marked but in vergrowh in the o ares. Zondektepo t that puberty can be induced by the implant on of adult (m le or fem le) anter or lobe subtice in the yon mou. Thouser at on if firm d prove the interleation of the glind.

How er there no tract a al ble at prese t

for the peutic use

The effect of active female set bormon extra is in the human female 1 a new chapter in endocrine thir py. The valuati nof thir results obtained by its us est and obly the specific te 1s for identifying the fin less ho mon a such and by the method for determing its concentration in the crushting blood. It source is known to be in the foll clorpus 1 turn and p1 enta (th. ther for ming th

orpus l t um and pl enta (th three io ming the gestational gland) Only lightly pot int prepara tions have heen obtained. The author has tried them in several classes of cases without signal success but the work is still in the experim intal stage. The outlook would be more promising if more concentrated product could be prene ed.

Endocrine therapy has thus been placed on a rational bass. Thyro d substance thyronn insulinand parathyrod hormone are well established products idrenalin and pitu tim subserve limited but well defined purposes. The female set hormone is available in small amounts for experimental and clin alimestigat on Anterio lobe pitutary adren al cortex and tests ular hormone are being stud ed-

#### SURGICAL PATHOLOGY AND DIAGNOSIS

M cCa ty W C A Cyt logical Key to ti e D g nosts and P ognos s of Neopi sms J L b & Cl 4I d 9 8 3 4

The u ual clinical group: g of pathological specimens is a follor's inflammatory (acute and chroni) neoplism (beingin and malignant) and questionable (inflammatory or neopla te)

The 1nfl mmat ry group' 1 characte ized by one or more of the following phenomena co gestion orderna necrosis leucocytic lymphocytic and endothelitocytic nofit ation forbrollistic and film or tite prol ferat on hyal nization and such cyto logic I hanges as granula degeneration fatty d gen ration vacuolizatio pyknoss and the pre ence of ceas nal giant cells

The neoplastic grup is character zed by the press of a mass or mase s feells which do it has e the exact hist logical ar angement of norse it saues but seem to a diplant are grown to state the construction of the plant are grown to the construction of the plant are grown to the construction of the plant are grown to the morphology of normal adult types of cells the condition is benign. If on the contrary they do not have the bory post carrangement of normal dult cells if they are it gull in shape and as if they ontain asymmet call in the figures if they are high retirement can did they chalce normal tas is by in as on and infiltration and epically if the mass in one reconsulated the condition is makenant.

The th rd o doubtful group s cha a tenzed by a combination of the characterities of Groups I and and s su h pr sents the great st different al

d gnost c difficulti s

The key to the diagnoss of mal gnant and ben gn on plast c cond to us and inflammatory c d to one and for p ogno s is a checkele perience the differential detailed morphological charact in the of adult t s ue c ll reparative r g nerative cell und ne plast c cell M xi II K NI M D

## BIBLIOGRAPHY of CURRENT LITERATURE

NOTE - THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS I SUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

## SURGERY OF THE HEAD AND NECK

#### Head

Injuries to the skull and brain A M DICKINSON N

Note State J VI 19 8 T vin 124
A case of depres ion of the skull in the petro quamous re ion VI G VILEATTI Semana med 19 8 vxx 1 Spontaneous fracture of the posterior chinoid PITFIELD J Am VI Ass 1928 TC 457

The normal and pathological roentgenographic ima e if the sella turcica in children ARCE Arch de med ciru

Primary sinus thrombosis Vf S Peuben Pediat 1928 tls 98

Bilateral th ombo is of the posterior cereb al a ters Fytensive lupus of the face of a young it with mic stoma ectropion and early malignant tray papill ma W J O Dovovas Proc Roy Soc Med Lond 19 8 xx1 686

Plastic of the face and jaw followin excision for car cinoma G P Muller Ann Surg 19 8 kxxv1 3 6
Osteofbroma of the superior ma. illa J A McCreers

Osteodoroma of the superior ma. Has J.

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